

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS on STN
 RN 58-73-1 REGISTRY
 CN Ethanamine, 2-(diphenylmethoxy)-N,N-dimethyl- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Ethylamine, 2-(diphenylmethoxy)-N,N-dimethyl- (7CI, 8CI)
 OTHER NAMES:
 CN .alpha.-(2-Dimethylaminoethoxy)diphenylmethane
 CN .beta.-Dimethylaminoethanol diphenylmethyl ether
 CN .beta.-Dimethylaminoethylbenzhydrylether
 CN 2-(Benzhydroyloxy)-N,N-dimethylethylamine
 CN 2-(Diphenylmethoxy)-N,N-dimethylethylamine
 CN Benzhydramine
 CN Dimedrol base
 CN **Diphenhydramine**
 CN DPH
 CN FAR 90X2
 CN N-[2-(Diphenylmethoxy)ethyl]-N,N-dimethylamine
 CN NSC 665800
 CN O-Benzhydryldimethylaminoethanol
 CN Probedryl
 FS 3D CONCORD
 MF C17 H21 N O
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
 BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
 CHEMLIST, CIN, CSCHM, DDFU, DIOGENES, DRUGU, EMBASE, HODOC*, HSDB*,
 IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, NAPRALERT, NIOSHTIC, PHAR,
 PHARMASEARCH, PROMT, RTECS*, SPECINFO, TOXCENTER, USAN, USPAT2,
 USPATFULL, VETU
 (*File contains numerically searchable property data)
 Other Sources: EINECS**, NDSL**, TSCA**, WHO
 (**Enter CHEMLIST File for up-to-date regulatory information)

Ph₂CH—O—CH₂—CH₂—NMe₂

****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

3062 REFERENCES IN FILE CA (1907 TO DATE)
 62 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 3066 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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DBs	USPAT; EPO; JPO; DERWENT			<input type="checkbox"/> Plurals
Default operator:			OR	<input type="checkbox"/> Highlight all hit terms initially
(olive adj oil) same (anti adj inflamma\$ or anti-inflamma\$)				

	U	1	Document	Issue Da	Page	Title	Current D	Current 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(olive adj oil) same (anti adj inflamma\$ or anti-inflamma\$)				

	U	1	Document	Issue	Da	Page	Title	Current O	Current X	Retrieval	Inventor	S	C	P	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217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(olive adj oil) same (anti adj inflamma\$ or anti-inflamma\$)

	U	1	Document	Issue	Da	Pag	Title	Current	D	Current	X	Retrieval	Inventor	S	C	P	3	
46			US 3993767	1976112	10		Compositions to	514/376					Alphin, Reeves					
47			US 3931288	1976010	17		Alkyl esters of	560/53		560/122;			Berger, Leo et al.					
48			US 3903133	1975090	16		3-Halo-4-oxo-cyclohexa	560/125		560/18;			Berger, Leo et al.					
49			US 3896145	1975072	20		Carbazoles	548/444		548/421;			Berger, Leo et al.					
50			US 3875219	1975040	16		Phenoxyimino	562/435		560/125;			Berger, Leo et al.					
51			US 3868387	1975022	13		1,2,3,4-TETRAHYDROC	548/448		548/421;			Berger, Leo et al.					
52			JP	1990080	3		DENTAL DRESSING						NINOMIYA,					
53			JP	1988090	8		EASILY ABSORBABLE						SATO, TOSHIO					
54			JP	1988011	17		MICRO-EMULSION						OTA, YOICHI et					
55			JP	1986062	4		RASH-PREVENTIVE						HARA, KENJI					
56			JP	1986041	4		ANTI-INFLAMMATORY			514/63			HARA, KENJI					
57			JP	1986040	5		ANTI-INFLAMMATORY			514/420			HARA, KENJI					
58			JP	1986030	5		EXTERNAL DRUG FOR						HARA, KENJI					
59			WO	2002080	21		PROTEOGLYCAN						THEOHARIDES,					
60			US	2003070	16		Use of synthetic and						BOLTON, A E et al.					
61			WO	2004142	NA		Anticancer agent						MILLOU, LM					

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(olive adj oil) same (anti adj inflamma\$ or anti-inflamma\$)

	U	1	Document	Issue Da	Pag	Title	Current D	Current X	Retrieval	Inventor	S	C	P	3	
52			JP	1990080	3	DENTAL DRESSING AGENT				NINOMIYA, TOSHIO	P				
53			JP	1988090	8	EASILY ABSORBABLE ANTI-INFLAMMATORY				SATO, TOSHIO	P				
54			JP	1988011	17	MICRO-EMULSION PREPARATION CONTAINING				OOTA, YOICHI et	P				
55			JP	1986062	4	RASH-PREVENTIVE COMPOSITION				HARA, KENJI	P				
56			JP	1986041	4	ANTI-INFLAMMATORY AGENT FOR EXTERNAL USE		514/63		HARA, KENJI	P				
57			JP	1986040	5	ANTI-INFLAMMATORY COMPOSITION FOR EXTERNAL USE		514/420		HARA, KENJI	P				
58			JP	1986030	5	EXTERNAL DRUG FOR SKIN				HARA, KENJI	P				
59			WO	2002080	21	PROTEOGLYCAN COMPOSITIONS FOR TREATING				THEOHARIDES, THEOHARIDES	P				
60			US	2003070	16	Use of synthetic and natural				BOLTON, A E et al.	P				
61			RO 116159	2000113	NA	Anti virus anti				MILOIU, I M	P				
62			JP	1996082	4	Anti-inflammatory agent					P				
63			JP	1994011	6	Prepn. of ibuprofen					P				
64			FR 2654107	1991051	8	Peroxidation-resistant				LAUZANNE, E et	P				
65			JP	1990080	3	Bandage for dental use					P				
66			JP	1984022	3	Antiinflammatory					P				

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(kernel adj olive adj oil) and (anti adj inflamma\$ or anti-inflamma\$)

	U	1	Document	Issue	Da	Page	Title	Current D	Current X	Retrieval	Inventor	S	C	P	3
1			WO	2002080	21		PROTEOGLYCAN				THEOHARIDES,				
2			WO	2003060	8		Composition useful for				THEOHARIDES, T				

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(kernel adj olive adj oil) same (anti adj inflamma\$ or anti-inflamma\$)

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1			WO		2002080	21	PROTEOGLYCAN						THEOHARIDES,					

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(unrefined adj olive adj oil) same (anti adj inflamma\$ or anti-inflamma\$)

anti-inflamm\$)

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anti-inflamma\$) and (chondroitin adj sulfate)

	U	1	Document	Issue Da	Page	Title	Current O	Current X	Retrieval	Inventor	S	C	P	3	
1			US 6624148	2003092	6	Proteoglycan	514/27	424/400;		Theoharides,					
2			US 5830486	1998110	6	Cosmetic	424/401	424/61;		Nanba, Tomiyuki et					
3			WO	2002080	21	PROTEOGLYCAN				THEOHARIDES,					

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USPAT:EPO:JPO:DERWENT
 ☐ Alerts

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(olive adj oil) same (anti adj inflamma\$ or anti-inflamma\$) same proteoglycan

	U	1	Document	Issue Da	Page	Title	Current D	Current X	Retrieval	Inventor	S	C	P	3	
1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WO	2002080	21	PROTEOGLYCAN				THEOHARIDES,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			2000000 10 0			COMPOSITIONS FOR				THEOHARIDES					

(proteoglycan or (chondroitin adj sulfate) or (keratan adj sulfate) or (dermatan
adj sulfate)) and (olive adj oil) and ((bovine adj sulfate) or (glucosamine
or (keratan adj sulfate) or (dermatan adj sulfate)))

(histidine or kaempferol or SAM or adenosylmethione)

	U	1	Document	Issue	Da	Pa	Title	Current O	Current X	Retrieval	Inventor	S	C	P	3	4	5
1			US 6624148	2003092	6		Proteoglycan	514/27	424/400;		Theoharides,						
2			US 6541627	2003040	38		Cellulose dispersion	536/56	106/163.01		Ono, Hirofumi et						
3			US 6541045	2003040	10		Herbal composition and	424/737	424/725;		Charters, Alec et						
4			US 6524583	2003022	108		Antibody methods for	424/145.1	424/133.1;		Thorpe, Philip E. et						
5			US 6448054	2002091	36		Purposeful movement of	424/184.1	424/85.1		Poznansky, Mark						
6			US 6416758	2002070	108		Antibody conjugate kits	424/145.1	424/1.49;		Thorpe, Philip E. et						
7			US 6407135	2002061	29		Conjugates of	514/423	514/2;		Lai, Ching-San et						
8			US 6399093	2002060	9		Method and composition	424/448	424/449;		Petrus, Edward J.						
9			US 6387418	2002051	30		Pomegranate extracts	424/744	424/725;		Aviram, Michael et						
10			US 6375993	2002042	30		Pomegranate extracts	424/744	424/725;		Aviram, Michael et						
11			US 6365175	2002040	16		Petroselinic acid and its	424/439	424/78.05;		Alaluf, Simon et al.						
12			US 6361807	2002032	30		Pomegranate extracts	424/744	424/725;		Aviram, Michael et						
13			US 6358539	2002031	15		Pharmaceutical	424/725	424/728;		Murad, Howard						
14			US 6350784	2002022	29		Antimicrobial	514/642	514/643		Squires, Meryl						
15			US 6342221	2002012	107		Antibody conjugate	424/178.1	424/1.49;		Thorpe, Philip E. et						
16			US 6342240	2002012	108		Antibody conjugate	424/145.1	424/133.1;		Thorpe, Philip E. et						

L7: (4857) (proteoglycan or (chondroitin adj sulfate)
 L9: (2) (proteoglycan or (chondroitin adj sulfate)
 L10: (54) (proteoglycan or (chondroitin adj sulfate)
 L11: (3) (proteoglycan or (chondroitin adj sulfate)
 L12: (2) (proteoglycan or (chondroitin adj sulfate)
 L13: (17) (proteoglycan or (chondroitin adj sulfate)
 L14: (40) (proteoglycan or (chondroitin adj sulfate)
 L15: (2447) (olive adj oil) and (anti adj inflammato
 L17: (1) (olive adj oil) same (anti adj inflammato
 L18: (3) (olive adj oil) same (anti adj inflammato
 L19: (0) (unrefined adj olive adj oil) same (anti ad

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DBs: USPAT; EPO; JPO; DERWENT

Plurals

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(proteoglycan or (chondroitin adj sulfate) or (keratan adj sulfate) or (dermatan adj sulfate)) and (olive adj oil) and ((hexosamine adj sulfate) or (glucosamine adj sulfate) or quercetin or myristetin or genistein or kaempferol or SAM or adenosylmethione)

	U	1	Document	Issue	Da	Page	Title	Current O	Current X	Retrieval	Inventor	S	C	P	3
16			US 6342219	2002012	106		Antibody compositions	424/145.1	424/133.1;		Thorpe, Philip E. et				
17			US 6323319	2001112	5		Method of making	530/356	435/212;		Alkayali, Ahmed				
18			US 6316428	2001111	9		Topical moisturizing	514/78	514/159;		Crandall, Wilson				
19			US 6294350	2001092	14		Methods for treating	435/29	424/277.1;		Peterson, Theresa				
20			US 6274627	2001081	28		Conjugates of	514/599	514/706;		Lai, Ching-San et				
21			US 6255497	2001070	35		Method for the inhibition	549/403	514/707		Vallee, Bert L. et				
22			US 6221383	2001042	53		Solubility parameter	424/449	424/448		Miranda, Jesus et				
23			US 6197757	2001030	27		Particles, especially	514/53	514/23;		Perrier, Eric et al.				
24			US 6025327	2000021	5		Hydrolyzed collagen	514/2	435/212;		Alkayali, Ahmed				
25			US 6025194	2000021	62		Nucleic acid sequence	435/320.1	435/325;		Funk, Walter				
26			US 6025151	2000021	20		Uses for compounds	435/29	514/159		Peterson, Theresa				
27			US 6024976	2000021	54		Solubility parameter	424/449	424/448		Miranda, Jesus et				
28			US 5972999	1999102	11		Pharmaceutical	514/474	424/417;		Murad, Howard				
29			US 5945409	1999083	9		Topical moisturizing	514/78	514/159;		Crandall, Wilson				
30			US 5916910	1999062	17		Conjugates of	514/423	514/514;		Lai, Ching-San				
31			US 5886028	1999022	25		Method for the inhibition	514/456	514/514		Vallee, Bert L. et				

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 L13: (17) (proteoglycan or (chondroitin adj sulfate)
 L14: (40) (proteoglycan or (chondroitin adj sulfate)
 L15: (2447) (olive adj oil) and (anti adj inflammato
 L17: (1) (olive adj oil) same (anti adj inflammato
 L18: (3) (olive adj oil) same (anti adj inflammato
 L19: (0) (unrefined adj olive adj oil) same (anti ad

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DBs: USPAT, EPO, JPO, DERWENT

Plurals

Default operator: OR

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(proteoglycan or (chondroitin adj sulfate) or (keratan adj sulfate) or (dermatan adj sulfate)) and (olive adj oil) and ((hexosamine adj sulfate) or (glucosamine adj sulfate) or quercetin or myristetin or genistein or kaempferol or SAM or adenosylmethione)

	U	1	Document	Issue Da	Page	Title	Current O	Current X	Retrieval	Inventor	S	C	P	3	
26			US 6025151	2000021	20	Uses for compounds	435/29			Peterson, Theresa					
27			US 6024976	2000021	54	Solubility parameter	424/449	424/448		Miranda, Jesus et					
28			US 5972999	1999102	11	Pharmaceutical	514/474	424/417;		Murad, Howard					
29			US 5945409	1999083	9	Topical moisturizing	514/78	514/159;		Crandall, Wilson					
30			US 5916910	1999062	17	Conjugates of	514/423	514/514;		Lai, Ching-San					
31			US 5886028	1999032	35	Method for the inhibition	514/456	514/811;		Vallee, Bert L. et					
32			US 5804594	1998090	11	Pharmaceutical	514/474	424/417;		Murad, Howard					
33			US 5763276	1998060	18	Processes for the	436/111	435/4;		Craig, William S.					
34			US 5656286	1997081	54	Solubility parameter	424/449	424/448		Miranda, Jesus et					
35			US 5639740	1997061	5	Topical moisturizing	514/78	514/159;		Crandall, Wilson					
36			US 5624910	1997042	36	Method for the inhibition	514/27	514/811		Vallee, Bert L. et					
37			US 5204369	1993042	31	Method for the inhibition	514/456	514/27;		Vallee, Bert L. et					
38			US 5073545	1991121	8	Agent containing an	514/27	424/195.17		Arima, Masatoshi					
39			WO	2002080	21	PROTEOGLYCAN				THEOHARIDES,					
40			WO	2003060	8	Composition useful for				THEOHARIDES, T					

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DBs:

USPAT, EPD, JPO, DERWENT ☐ Elerts

Default operator: OR ☐ Highlight all hit terms initially

☐ L7: (4857) (proteoglycan or (chondroitin adj sulfate)
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☐ L12: (2) (proteoglycan or (chondroitin adj sulfate)
☒ L13: (17) (proteoglycan or (chondroitin adj sulfate)
☐ L14: (40) (proteoglycan or (chondroitin adj sulfate)
☐ L15: (2447) (olive adj oil) and (anti adj inflamma\$ o
☐ L17: (1) (olive adj oil) same (anti adj inflamma\$ o
☐ L18: (3) (olive adj oil) same (anti adj inflamma\$ or anti-inflamma\$) and (chondroitin adj sulfate)
☐ L19: (0) (unrefined adj olive adj oil) same (anti ad

(proteoglycan or (chondroitin adj sulfate) or (keratan adj sulfate) or (dermatan adj sulfate)) and (olive adj oil) and ((hexosamine adj sulfate) or (glucosamine adj sulfate))

	U	1	Document	Issue	Da	Page	Title	Current O	Current X	Retrieval	Inventor	S	C	P	3	
3	<input type="checkbox"/>	<input type="checkbox"/>	US 6407135	2002061	29		Conjugates of	514/423	514/2;		Lai, Ching-San et	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	<input type="checkbox"/>	<input type="checkbox"/>	US 6399093	2002060	9		Method and composition	424/448	424/449;		Petrus, Edward J.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	<input type="checkbox"/>	<input type="checkbox"/>	US 6358539	2002031	15		Pharmaceutical	424/725	424/728;		Murad, Howard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	<input type="checkbox"/>	<input type="checkbox"/>	US 6323319	2001112	5		Method of making	530/356	435/212;		Alkayali, Ahmed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	<input type="checkbox"/>	<input type="checkbox"/>	US 6316428	2001111	9		Topical moisturizing	514/78	514/159;		Crandall, Wilson	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	<input type="checkbox"/>	<input type="checkbox"/>	US 6274627	2001081	28		Conjugates of	514/599	514/706;		Lai, Ching-San et	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	<input type="checkbox"/>	<input type="checkbox"/>	US 6197757	2001030	27		Particles, especially	514/53	514/23;		Perrier, Eric et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	<input type="checkbox"/>	<input type="checkbox"/>	US 6025327	2000021	5		Hydrolyzed collagen	514/2	435/212;		Alkayali, Ahmed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	<input type="checkbox"/>	<input type="checkbox"/>	US 5972999	1999102	11		Pharmaceutical	514/474	424/417;		Murad, Howard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	<input type="checkbox"/>	<input type="checkbox"/>	US 5945409	1999083	9		Topical moisturizing	514/78	514/159;		Crandall, Wilson	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	<input type="checkbox"/>	<input type="checkbox"/>	US 5916910	1999062	17		Conjugates of	514/423	514/514;		Lai, Ching-San	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	<input type="checkbox"/>	<input type="checkbox"/>	US 5804594	1998090	11		Pharmaceutical	514/474	424/417;		Murad, Howard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15	<input type="checkbox"/>	<input type="checkbox"/>	US 5639740	1997061	5		Topical moisturizing	514/78	514/159;		Crandall, Wilson	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16	<input type="checkbox"/>	<input type="checkbox"/>	WO	2002080	21		PROTEOGLYCAN				THEOHARIDES,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17	<input type="checkbox"/>	<input type="checkbox"/>	WO	2003060	8		Composition useful for				THEOHARIDES, T	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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	U	1	Document	Issue	Da	Pa	Title	Current	O	Current	X	Retrieval	Inventor	S	C	P	3
1			WO		2002	080 21	PROTEOGLYCAN						THEOHARIDES,				
2			WO		2003	060 8	Composition useful for						THEOHARIDES, T				

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 PMS logo
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 HBM logo

✎ L19: (0) (unrefined adj olive adj oil) same (anti ad)

(proteoglycan or (chondroitin adj sulfate) or (keratan adj sulfate) or (dermatan adj sulfate)) and (kernel adj oil)

✓ Highlight all his terms initially

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U	1	Document	Issue Da	Pag	Title	Current O	Current X	Retrieval	Inventor	S	C	P	3

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DBs: USPAT; EPO; JPO; DERWENT

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(proteoglycan or (chondroitin adj sulfate) or (keratan adj sulfate) or (dermatan adj sulfate)) and (kernel adj oil)

	U	I	Document	Issue Da	Pat	Title	Current O	Current X	Retrieval	Inventor	S	C	P	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217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(proteoglycan or (chondroitin adj sulfate) or (keratan adj sulfate) or (dermatan adj sulfate)) and (kernel adj oil)

L18: (3) (olive adj oil) same (anti adj inflamma\$ o
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 L8: (2) (proteoglycan or (chondroitin adj sulfate)
 L24: (2) ("5223257").PN.
 L10: (54) (proteoglycan or (chondroitin adj sulfat
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16	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6365175	2002040	16		Petroselinic acid and its	424/439	424/78.05;		Alaluf, Simon et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6342208	2002012	22		Oil-in-water emulsion	424/59	424/400;		Hyldgaard, Jorgen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6325995	2001120			Lipsticks compositions	424/64	424/450;		El-Nokaly, Magda	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6316424	2001111			Sulfated	514/48			Dadey, Eric J. et	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6309657	2001103			Cosmetic compositions	424/401	424/63;		Vatter, Michael	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6231889	2001051			Unit dosage forms for	424/464	424/401;		Richardson,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6224888	2001050			Cosmetic compositions	424/401	424/78.03		Vatter, Michael	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6210693	2001040			Oil-in-water type	424/401	424/450;		Inoue, Haruhiko et	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6200602	2001031			Composition for	424/463	424/451;		Watts, Peter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6197757	2001030	27		Particles, especially	514/53	514/23;		Perrier, Eric et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6066316	2000052			Fine dispersion	424/70.19	424/401;		Shiojima,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6036966	2000031			Skin treatment	424/401	424/70.1		Youssefyeh, Rena	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6008246	1999122			External preparation for	514/458	514/643;		Ito, Kenzo et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5981606	1999110	39		Therapeutic	514/724	514/458;		Martin, Alain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
30	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5928631	1999072			Methods for controlling	424/65	422/5;		Lucas, Juliet Marie	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
31	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5922250	1999074			Skin treatment	424/570			Youssefyeh, Rena	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- ✓ L18: (3) (olive adj oil) same (anti adj inflamma\$ o
- ✓ L19: (0) (unrefined adj olive adj oil) same (anti ad
- ✓ L20: (0) (unrefined adj olive adj oil) and (anti adj
- ✓ L21: (1) (kernel adj olive adj oil) same (anti adj in
- ✓ L22: (2) (kernel adj olive adj oil) and (anti adj infl
- ✓ L23: (2447) (olive adj oil) and (anti adj inflamma\$
- ✓ L16: (66) (olive adj oil) same (anti adj inflamma\$
- ✓ L8: (2) (proteoglycan or (chondroitin adj sulfate)
- ✓ L24: (2) ("5223257").PN.
- ✓ L10: (54) (proteoglycan or (chondroitin adj sulfat

Failed

Browse Queue Clear

DB: USPAT,EPO,JPO,DERWENT

Plurals

Default operator: OR

P Highlight all hit terms initially

(proteoglycan or (chondroitin adj sulfate) or (keratan adj sulfate) or (dermatan adj sulfate)) and (kernel adj oil)

	U	1	Document	Issue Da	Page	Title	Current D	Current X	Retrieval	Inventor	S	C	P	3	
31	✓		US 5922359	1999071		Skin treatment	424/570			Youssefyeh, Rena					
32	✓		US 5874479	1999022	40	Therapeutic permeation	514/724	514/458;		Martin, Alain					
33	✓		US 5866158	1999020		Composition composed	424/450	424/401;		Ribier, Alain et al.					
34	✓		US 5863938	1999012	41	Antibacterial-wound	514/461	514/774;		Martin, Alain					
35	✓		US 5856364	1999010	64	Therapeutic	514/724	514/458;		Martin, Alain					
36	✓		US 5849272	1998121	9	Ultraviolet absorbing	424/59	424/401;		Baba, Katsuya et					
37	✓		US 5843407	1998120		Non-sweating lipsticks	424/64	252/299.01		El-Nokaly, Magda					
38	✓		US 5814343	1998092		Cosmetic composition	424/499	424/401;		Jones, Malcolm N					
39	✓		US 5767158	1998061		Endermic liniment	514/563	514/114;		Suetsugu, Masaru					
40	✓		US 5753223	1998051		Granular feed additives	424/94.3	424/442;		Shibahara,					
41	✓		US 5741518	1998042	15	Composition composed	424/450	424/401;		Ribier, Alain et al.					
42	✓		US 5692302	1997120	48	Razor cartridges	30/41			Martin, Alain et al.					
43	✓		US 5676966	1997101		Feed additive	424/438	424/442;		Kitamura,					
44	✓		US 5674912	1997100	44	Sunscreen-wound	514/724	424/59;		Martin, Alain					
45	✓		US 5663208	1997090	41	Antifungal wound	514/724	424/600;		Martin, Alain					
46	✓		US 5659057	1997084	40	Immunostimulation	514/724	424/500;		Martin, Alain					

File View Edit Tools Window Help

Ready

26/31

FAST - (01-771668.wsp.1)

File View Edit Tools Window Help

Search: Browse Queue Clear

DBs: USPAT, EPO, JPO, DERWENT ☐ Plots

Default operator: OR ☐ Highlight all hit terms initially

(proteoglycan or (chondroitin adj sulfate) or (keratan adj sulfate) or (dermatan adj sulfate)) and (kernel adj oil)

L18: (3) (olive adj oil) same (anti adj inflamma\$ o
 L19: (0) (unrefined adj olive adj oil) same (anti ad
 L20: (0) (unrefined adj olive adj oil) and (anti adj
 L21: (1) (kernel adj olive adj oil) same (anti adj in
 L22: (2) (kernel adj olive adj oil) and (anti adj infl
 L23: (2447) (olive adj oil) and (anti adj inflamma\$
 L16: (66) (olive adj oil) same (anti adj inflamma\$
 L8: (2) (proteoglycan or (chondroitin adj sulfate)
 L24: (2) ("5223257").PN.
 L10: (54) (proteoglycan or (chondroitin adj sulfat
 Failed

	U	1	Document	Issue Da	Page	Title	Current O	Current X	Retrieval	Inventor	S	C	P	3	
40	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5753223	1998051		Granular feed additives	424/94.3	424/442;		Shibahara,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
41	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5741518	1998042	15	Composition composed	424/450	424/401;		Ribier, Alain et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
42	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5692302	1997120	48	Razor cartridges	30/41	424/401;		Martin, Alain et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
43	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5676966	1997101		Feed additive	424/438	424/442;		Kitamura,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
44	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5674912	1997100	44	Sunscreen-wound	514/724	424/59;		Martin, Alain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
45	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5663208	1997090	41	Antifungal wound	514/724	424/600;		Martin, Alain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
46	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5658957	1997081	49	Immunostimulating	514/724	424/502;		Martin, Alain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
47	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5648380	1997071	41	Anti-inflammatory	514/461	514/284;		Martin, Alain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
48	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5633285	1997052	73	Cytoprotective wound	514/724	514/458;		Martin, Alain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
49	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5602183	1997021	42	Dermatological wound	514/724	424/DIG.1		Martin, Alain et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
50	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5510120	1996042		Cosmetic composition	424/499	424/401;		Jones, Malcolm N.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
51	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5437693	1995080		Heavy oil emulsion fuel	44/302	44/445		Iizuka, Masanori et	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
52	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4434159	1984022		Pharmaceutical	514/3	424/DIG.1		Sekine, Kunio et	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
53	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4430356	1984020		Method for production	426/574	426/580;		Ohyabu, Shuzo et	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
54	<input checked="" type="checkbox"/>	<input type="checkbox"/>	JP	1992020		HAND CREAM				KINEKAWA,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Free Online

Ready

34/34

EAST - (09-771668 wsu 1)

File View Edit Tools Window Help

Drafts
BRS:
Pending
Active
L1: (2374) proteoglycan and inflamm\$
L2: (1317) proteoglycan and inflamm\$
L3: (289) proteoglycan same inflamm\$
L4: (289) \$9proteoglycan same inflamm\$
L5: (11) \$9proteoglycan same antiinflamm\$
L6: (50) \$9proteoglycan same ((anti adj inflamm\$
L7: (4857) (proteoglycan or (chondroitin adj sulf\$

USPAT, EPO, JPO, DERWENT
Default operator: OR
Highlight all hit terms initially

\$9proteoglycan same antiinflamm\$

	U	1	Document	Issue	Da	Page	Title	Current O	Current X	Retrieval	Inventor	S	C	P	3	
1			US 6524609	2003022	6		Treating arthritis in	424/439	424/400;		Myers, Andrew	P				
2			US 6211209	2001040	17		Method of inhibiting	514/361	514/363;		Baragi,	P				
3			US 5945319	1999083	9		Periodate oxidative	435/174	424/422;		Keogh, James R.	P				
4			US 5668116	1997091	36		Anti-inflammatory	514/54	514/56;		Cullis-Hill, David et	P				
5			US 5145858	1992090	31		Pyrrolo[1,2-a]	514/318	514/300;		Adams, Jerry L. et	P				
6			US 5002941	1991032	29		Pyrrolo(1,2-a)imidazole	514/186	514/333;		Adams, Jerry L. et	P				
7			JP	1995022	6		AGENT FOR TREATING				TAKIGAWA,	P				
8			JP	1991102	16		AEROSOL				D, HINTERLAND	P				
9			EP 826382	2003022	8		Linking first material				KEOGH, J E et al.	P				
10			US 5703119	1997123	8		New				BARAGI, V et al.	P				
11			US 5679344	1997102	3		Nutrient composition for				BYNUM, S A et al.	P				

Ready

Drafts

BRS:

Pending

Active

- L1: (2374) proteoglycan and inflamm\$
- L2: (1317) proteoglycan and inflamm\$
- L3: (289) proteoglycan same inflamm\$
- L4: (289) \$9proteoglycan same inflamm\$
- L5: (11) \$9proteoglycan same antiinflamm\$
- L6: (50) \$9proteoglycan same ((anti adj inflamma\$**
- L7: (4857) (proteoglycan or (chondroitin adj sulf

QPS: USPAT,EPO,JPO,DERWENT

☐ Elaborate

Default operator: OR

☐ Highlight all hit terms initially

\$9proteoglycan same ((anti adj inflamma\$) or (anti-inflamma\$))

	U	1	Document	Issue Da	Page	Title	Current O	Current X	Retrieval	Inventor	S	C	P	3	
1	<input type="checkbox"/>	<input type="checkbox"/>	US 6624148	2003092	6	Proteoglycan	514/27	424/400;		Theoharides,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	<input type="checkbox"/>	<input type="checkbox"/>	US 6617142	2003090	18	Method for attachment	435/174	424/178.1;		Keogh, James R.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	<input type="checkbox"/>	<input type="checkbox"/>	US 6610731	2003082	109	Lactam metalloprotease	514/422			Duan, Jingwu et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	<input type="checkbox"/>	<input type="checkbox"/>	US 6584360	2003062	25	System and method for	607/98	606/41;		Francischelli,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	<input type="checkbox"/>	<input type="checkbox"/>	US 6583118	2003062	6	Chondroprotective	514/25	514/27;		Watanabe, Koju et	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	<input type="checkbox"/>	<input type="checkbox"/>	US 6569147	2003052	38	Systems and methods of	604/509	606/200		Evans, Douglas G.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	<input type="checkbox"/>	<input type="checkbox"/>	US 6559119	2003050	81	Method of preparing a	514/2	427/2.26;		Burgess, Willson	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	<input type="checkbox"/>	<input type="checkbox"/>	US 6558382	2003050	24	Suction stabilized	606/41	606/47;		Jahns, Scott E. et	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	<input type="checkbox"/>	<input type="checkbox"/>	US 6532388	2003031	28	Method and system for	607/2	607/9		Hill, Michael R. S.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	<input type="checkbox"/>	<input type="checkbox"/>	US 6506785	2003011	22	Treating or preventing	514/411			Evans, Nigel A. et	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	<input type="checkbox"/>	<input type="checkbox"/>	US 6492350	2002121	15	Chitin oligosaccharides	514/55	514/20;		Konno, Allen I. et	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	<input type="checkbox"/>	<input type="checkbox"/>	US 6487446	2002112	16	Method and system for	604/20	607/117;		Hill, Michael R.S.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	<input type="checkbox"/>	<input type="checkbox"/>	US 6455522	2002092	48	Cyclic sulfonamide	514/221	540/490;		Duan, Jingwu et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	<input type="checkbox"/>	<input type="checkbox"/>	US 6451771	2002091	14	Use of anabolic agents	514/54	514/510;		Henderson, Todd	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15	<input type="checkbox"/>	<input type="checkbox"/>	US 6449507	2002091	18	Method and system for	607/9	128/898		Hill, Michael R. S.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16	<input type="checkbox"/>	<input type="checkbox"/>	US 6447443	2002091	12	Method for	600/27	428/908		Keogh, James R.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ If no ☐ Update ☐ Print

Help

Page

FAST - (00-771669 wcp 1)

File View Edit Tools Window Help

☐ Drafts
 ☒ BRS:
 ☐ Pending
 ☒ Active

L1: (2374) proteoglycan and inflamm\$
 L2: (1317) proteoglycan and inflamm\$
 L3: (289) proteoglycan same inflamm\$
 L4: (289) \$9proteoglycan same inflamm\$
 L5: (11) \$9proteoglycan same antiinflamm\$
 L6: (50) \$9proteoglycan same ((anti adj inflamm\$
 L7: (4857) (proteoglycan or (chondroitin adj sulf

☒ DBs: USPAT,EPO: JPO: DERWENT
 ☐ Plurals

Default operator: OR
 ☐ Highlight all hit terms initially

\$9proteoglycan same ((anti adj inflamm\$) or (anti-inflamma\$))

	U	1	Document	Issue Da	Page	Title	Current O	Current X	Retrieval	Inventor	S	C	P	3	
16	<input type="checkbox"/>	<input type="checkbox"/>	US 6447443	2002091	43	Method for organ	600/37	128/898;		Keogh, James R.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17	<input type="checkbox"/>	<input type="checkbox"/>	US 6428579	2002080	24	Implantable prosthetic	623/23.76	427/2.13;		Valentini, Robert	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18	<input type="checkbox"/>	<input type="checkbox"/>	US 6403632	2002061	119	Lactam metalloprotease	514/422	514/424;		Duan, Jingwu et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19	<input type="checkbox"/>	<input type="checkbox"/>	US 6399078	2002060	30	Chemokine-glycosamin	424/278.1	424/185.1;		Devico, Anthony L.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20	<input type="checkbox"/>	<input type="checkbox"/>	US 6333304	2001122	11	Therapeutic	514/2	514/54;		Bath, Teresa K. et	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21	<input type="checkbox"/>	<input type="checkbox"/>	US 6281352	2001082	118	Macrocyclic compounds	540/451	540/453;		Xue, Chu-Bio et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22	<input type="checkbox"/>	<input type="checkbox"/>	US 6251863	2001062	8	Method of preventing	514/12	514/2;		Yue, Samuel K.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23	<input type="checkbox"/>	<input type="checkbox"/>	US 6197325	2001030	79	Supplemented and	424/426	424/400;		MacPhee, Martin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24	<input type="checkbox"/>	<input type="checkbox"/>	US 6156355	2000120	15	Breed-specific canine	426/74	426/61;		Shields, Jr.,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25	<input type="checkbox"/>	<input type="checkbox"/>	US 6057336	2000050	129	Lactam metalloprotease	514/312	514/278;		Duan, Jingwu et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26	<input type="checkbox"/>	<input type="checkbox"/>	US 6033719	2000030	9	Method for covalent	427/2.12	427/2.13;		Keogh, James R.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27	<input type="checkbox"/>	<input type="checkbox"/>	US 6017741	2000012	7	Periodate oxidative	435/174	424/422;		Keogh, James R.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28	<input type="checkbox"/>	<input type="checkbox"/>	US 5972880	1999102	9	Method of treatment of	514/2	424/184.1;		Pelletier,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29	<input type="checkbox"/>	<input type="checkbox"/>	US 5945319	1999083	9	Periodate oxidative	435/174	424/422;		Keogh, James R.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
30	<input type="checkbox"/>	<input type="checkbox"/>	US 5928916	1999072	7	Ionic attachment of	435/174	424/422;		Keogh, James R.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
31	<input type="checkbox"/>	<input type="checkbox"/>	US 5925552	1999072	15	Method for attachment	435/174	424/422;		Keogh, James R.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

FAST - (00-771664.wsp 1)

File View Edit Tools Window Help

☐ Drafts ☒ BRS: ☐ Pending ☐ Active

L1: (2374) proteoglycan and inflamm\$
 L2: (1317) proteoglycan and inflamm\$
 L3: (289) proteoglycan same inflamm\$
 L4: (289) \$9proteoglycan same inflamm\$
 L5: (11) \$9proteoglycan same antiinflamm\$
 L6: (50) \$9proteoglycan same ((anti adj inflamm\$
 L7: (4857) (proteoglycan or (chondroitin adj sulf

Search Browse Queue Clear

DBs: USPAT, EPO, JPO, DERWENT ☐ Plurals

Default operator: OR ☐ Highlight all hit terms initially

\$9proteoglycan same ((anti adj inflamm\$) or (anti-inflamm\$))

SPS View ☐ SPS View ☐ Print ☐ Quit ☐ Help

	U	I	Document	Issue Da	Page	Title	Current D	Current X	Retrieval	Inventor	S	C	P	3	
31	<input type="checkbox"/>	<input type="checkbox"/>	US 5925552	1999072	15	Method for attachment	435/174	424/178.1;		Keogh, James R.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
32	<input type="checkbox"/>	<input type="checkbox"/>	US 5891506	1999040	10	Oxidative method for	427/2.13	424/130.1;		Keogh, James R.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
33	<input type="checkbox"/>	<input type="checkbox"/>	US 5759836	1998060	23	Osteoarthritis-associate	435/189	435/184		Amin, Ashok R. et	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
34	<input type="checkbox"/>	<input type="checkbox"/>	US 5728420	1998031	8	Oxidative method for	427/2.12	427/2.13;		Keogh, James R.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
35	<input type="checkbox"/>	<input type="checkbox"/>	US 5691381	1997112	23	Hydroxamic and	514/562	514/563;		Jacobson, Irina	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
36	<input type="checkbox"/>	<input type="checkbox"/>	US 5650433	1997072	7	Chondroprotective	514/456	514/453		Watanabe, Koju et	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
37	<input type="checkbox"/>	<input type="checkbox"/>	US 5626868	1997050	12	Cosmetic and/or	424/450	424/401;		Morancais,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
38	<input type="checkbox"/>	<input type="checkbox"/>	US 5621009	1997041	6	Chondroprotective	514/568	514/825		Watanabe, Koju et	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
39	<input type="checkbox"/>	<input type="checkbox"/>	US 5541295	1996073	38	Detection of type II	530/388.1	435/7.93;		Barrach,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
40	<input type="checkbox"/>	<input type="checkbox"/>	US 5539129	1996072	17	Nonionic amphiphilic	549/430	516/74;		Zysman,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
41	<input type="checkbox"/>	<input type="checkbox"/>	US 5470840	1995112	37	Anti-inflammatory	514/54	536/121;		Cullis-Hill, David et	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
42	<input type="checkbox"/>	<input type="checkbox"/>	US 5455268	1995100	12	Esculetin derivatives	514/457	514/825;		Watanabe, Koju et	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
43	<input type="checkbox"/>	<input type="checkbox"/>	US 5453444	1995092	12	Method to mitigate or	514/577	514/25;		Strassmann,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
44	<input type="checkbox"/>	<input type="checkbox"/>	US 5449679	1995091	10	Process and products	514/310	128/898;		Leonard, Robert J.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
45	<input type="checkbox"/>	<input type="checkbox"/>	US 5362494	1994110	17	Cosmetic,	424/401	424/405;		Zysman,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
46	<input type="checkbox"/>	<input type="checkbox"/>	US 5445844	1994000	26	Anti-inflammatory	514/54	536/121;		Cullis-Hill, David et	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

\$9proteoglycan same ((anti adj inflamma\$) or (anti-inflamma\$))

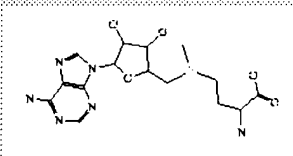
	U	1	Document	Issue	Da	Pag	Title	Current D	Current X	Retrieval	Inventor	S	C	P	3	-
36			US 5650433	1997072	7		Chondroprotective	514/456	514/453		Watanabe, Koju et					
37			US 5626868	1997050	12		Cosmetic and/or	424/450	424/401;		Morancais,					
38			US 5621009	1997041	6		Chondroprotective	514/568	514/825		Watanabe, Koju et					
39			US 5541295	1996073	38		Detection of type II	530/388.1	435/7.93;		Barrach,					
40			US 5539129	1996072	17		Nonionic amphiphilic	549/430	516/74;		Zysman,					
41			US 5470840	1995112	37		Anti-inflammatory	514/54	536/121;		Cullis-Hill, David et					
42			US 5455268	1995100	12		Esculetin derivatives	514/457	514/825;		Watanabe, Koju et					
43			US 5453444	1995092	12		Method to mitigate or	514/577	514/25;		Strassmann,					
44			US 5449679	1995091	10		Process and products	514/310	128/898;		Leonard, Robert J.					
45			US 5362494	1994110	17		Cosmetic,	424/401	424/405;		Zysman,					
46			US 5145841	1992090	36		Anti-inflammatory	514/54	536/121;		Cullis-Hill, David et					
47			WO	2002080	21		PROTEOGLYCAN				THEOHARIDES,					
48			US 6017513	2000012			Mucosal administration				BETBEDER, D et					
49			US 6255295	2003062			Composition to repair				HAMMAD, T et al.					
50			EP 633021	1995011			Use of aryl carboxylic				NIIMURA, K et al.					

Off-site

Generate hydrogens and dictionaries (MOL2, GROMOS87, GROMACS, WHAT IF, HEX, CNS, O, and SHELX) using the [PRODRG](#) server in Dundee:

[Run PRODRG](#)

[PDBsum \(UCL\)](#) list of PDB files and other information for "SAM"



[Check Relibase \(EBI\) \[SAM\]](#)

Entry for "SAM" in the [Hetero Components Database \(Jena\)](#)

[NIST Chemistry Webbook hits](#) for formula C15 H22 N6 O5 S1

Summary of HETZE report :

```

Residue type           : (SAM)
Identifier             : ( 2922)
Segment ID            : ( )

Nr of atoms           : ( 27)
List of elements (from file) : ( C15 H22 N6 O5 S1)
Deduced formula        : (C15 N6 O5 S1)
Guestimated total nr of Hs : ( 21)
Nr of extra examples   : ( 0)

Nr of distances < 0.5 Å : ( 0)
Nr of bond angles < 60 degrees : ( 0)

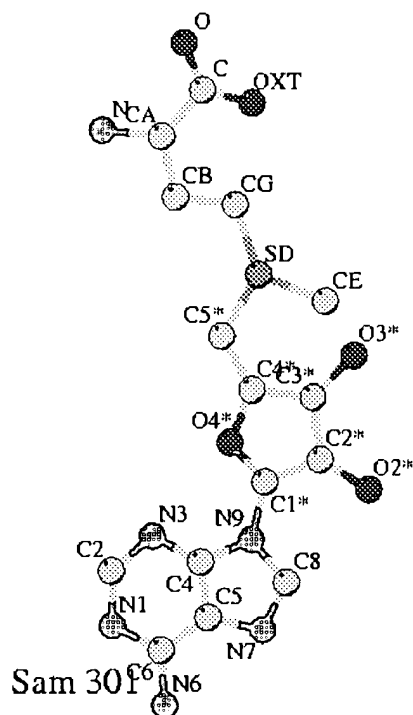
Nr of bonds found      : ( 29)
... bonds without ideal value : ( 0)
... bonds near ideal value : ( 29)
... bonds far from ideal value : ( 0)
    -"- % : ( 0.000)

Nr of angles found     : ( 42)

Nr of dihedrals found  : ( 56)

Nr of atoms with impropers : ( 11)
... imprs far from ideal value : ( 1)
    -"- % : ( 9.091)

Nr of flat planes      : ( 11)
    
```



This page is part of the HIC-Up site (Hetero-compound Information Centre - Uppsala).

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HIC-Up release 5.3 [2001-12-01].

Created at Sun Dec 02 16:58:48 2001.

0.01007

HIC-Up

Acronym:	SAM
PDB entry:	1ej0 (RCSB-PDB) (PDBsum)
Formula:	C15 H22 N6 O5 S1
Resolution (Å):	1.50
Name(s):	s-adenosylmethionine

WARNING - alternative chemical formulas found: C15 H22 N6 O5 S1 ... C15 H23 N6 O5 S1

| [Coordinates](#) | [Visualisation](#) | [Dictionaries](#) | [Miscellaneous](#) | [Off-site](#) | [Rest](#) |

Coordinates

[PDB file](#) ("pdb", with REMARK and HETATM records)

[PDB file](#) ("txt", with REMARK and HETATM records)

[Clean PDB file](#) ("pdb", no REMARKs, ATOM records)

[Clean PDB file](#) ("txt", no REMARKs, ATOM records)

Visualisation

[VRML file](#)

[ChemScape Chime page](#)

Dictionaries

[PDB dictionary file](#) (CONNECT records, etc.)

[X-PLOR/CNS topology file](#)

[X-PLOR/CNS parameter file](#) (0 warnings, 2 notes)

[X-PLOR/CNS energy minimisation input file](#)

[O RS_FIT datablock](#)

[O RSR datablock](#)

[O connectivity entry](#)

[O torsion entry](#)

[O Refi dictionary entry](#)

[TNT dictionary file](#)

Miscellaneous

[Disclaimer](#)

[HETZE log file](#) (quality assessment)

[Connection table file](#)

No superstructures found

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☒ Highlight all hit terms initially

((chondroitin adj sulfate) or (keratan adj sulfate) or (dermatan adj sulfate) or (hyaluronic adj acid)) and (glucosamine adj sulfate)

 BRS form
 GAR form
 Image
 Text
 STAN

	U	1	Document I	Issue Da	Page	Title	Current O	Current X	Retrieval	Inventor	S	C	P	3	
1	F	F	US	2002032	14	Composition and	424/725	514/406;		Gelber, Daniel et					
2	F	F	US	2002031	14	Aminosugar,	514/46	514/54		Henderson, Robert					
3	F	F	US	2002022	13	Composition and	514/2	514/54;		Petito, George D.					
4	F	F	US	2002011	16	Composition and	424/725	424/737		Gelber, Daniel et					
5	F	F	US	2002011	15	Composition and	424/725	424/737		Gelber, Daniel et					
6	F	F	US	2002010	29	Novel bisphosphonates	514/25	536/18.7		Holick, Michael F.					
7	F	F	US	2001122	29	Compostion and	424/769			Castillo, Gerardo					
8	F	F	US	2001112	5	Analgesics combined	514/54	514/62;		Hammerly, Milton					
9	F	F	US	2001112	15	Composition and	514/28	424/643;		Gelber, Daniel et					
10	F	F	US	2001112	16	Composition and	514/27	424/726;		Gelber, Daniel et					
11	F	F	US	2001112	15	Composition and	424/764	424/744;		Gelber, Daniel et					
12	F	F	US	2001111	11	Glycosides and	514/26	536/5		Holick, Michael F.					
13	F	F	US	2001101	25	Compositions and	514/54	424/729;		Kosbab, John V.					
14	F	F	US 6358539	2002031	15	Pharmaceutical	424/725	424/728;		Murad, Howard					
15	F	F	US 6358526	2002031	15	Method of making	424/464	424/479;		Mergens, William					
16	F	F	US 6346519	2002021	6	Method and composition	514/62	514/61;		Petrus, Edward J.					

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File View Edit Tools Window Help

Drafts

BRS:

Pending

Active

L1: (2350) flavonoid or flavone

L2: (1052) quercetin

L3: (3) ("5804594").PN.

L4: (50) ((chondroitin adj sulfate) or (keratan adj

L5: (20422) sam or s-adenosylmethionine or (s ar

L6: (5) (sam or s-adenosylmethionine or (s adj ad

L7: (1080) sunscreen and (titanium adi dioxide)

Search

DBs

USPAT,US,PGPUB,EPO,DERWENT

Plurals

Default operator: OR

Highlight all hit terms initially

((chondroitin adj sulfate) or (keratan adj sulfate) or (dermatan adj sulfate) or (hyaluronic adj acid)) and (glucosamine adj sulfate)

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18	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6340783	2002012	82		Rodent models of	800/12	435/40.5;		Snow, Alan D.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6333304	2001122	11		Therapeutic	514/2	514/54;		Bath, Teresa K. et	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6323319	2001112	5		Method of making	530/356	435/212;		Alkayali, Ahmed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6316428	2001111	9		Topical moisturizing	514/78	514/159;		Crandall, Wilson	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6274627	2001081	28		Conjugates of	514/599	514/706;		Lai, Ching-San et	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6271213	2001080	16		Aminosugar,	514/53	514/46;		Henderson, Robert	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6264994	2001072	31		Compositions for	424/725	424/745;		Castillo, Gerardo	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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28	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6162787	2000121	5		Methods for treating	514/2	424/184.1;		Sorgente, Nino et	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6136795	2000102	6		Dietary regimen of	514/62	424/523;		Florio, Vito V.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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31	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5972999	1999102	11		Pharmaceutical	514/474	424/417;		Murad, Howard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
32	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5958883	1999092	85		Animal models of human	514/16	514/17;		Snow, Alan D.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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FileViewEditToolsWindowHelp

Drafts

BRS:

Pending

Active

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L2: (1052) quercetin

L3: (3) ("5804594").PN.

L4: (50) ((chondroitin adj sulfate) or (keratan adj

L5: (20422) sam or s-adenosylmethionine or (s ac

L6: (5) (sam or s-adenosylmethionine or (s adj ac

L7: (1080) sunscreen and (titanium adi dioxide)

Search

Browse

Queue

Clear

DBs

USPAT:US:PPUB:EPO:DERWENT

Phrds

Default operator:

OR

Highlight all hit terms initially

((chondroitin adj sulfate) or (keratan adj sulfate) or (dermatan adj sulfate) or (hyaluronic adj acid)) and (glucosamine adj sulfate)

By BRS Item

By SACS Item

By Page

By Title

By Year

	U	I	Document	Issue	Da	Pag	Title	Current O	Current X	Retrieval	Inventor	S	C	P	3
36	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5916910	1999062	17		Conjugates of	514/423	514/514;		Lai, Ching-San	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
37	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5843919	1998120	6		Composition and	514/62	514/560		Burger, John A.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
38	<input type="checkbox"/>	<input type="checkbox"/>	US 5840715	1998112	6		Dietary regimen of	514/62	424/523;		Florio, Vito V.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
39	<input type="checkbox"/>	<input type="checkbox"/>	US 5804594	1998090	11		Pharmaceutical	514/474	424/417;		Murad, Howard	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
40	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5639787	1997061	6		Therapeutic method for	514/474	514/449		Riordan, Neil H. et	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
41	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5639740	1997061	5		Topical moisturizing	514/78	514/159;		Crandall, Wilson	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
42	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5587363	1996122	10		Aminosugar and	514/54	514/62		Henderson, Robert	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
43	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5364845	1994111	11		Glucosamine,	514/54	514/62		Henderson, Robert	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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50	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ZA 9905557	2000062			Composition for treating					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Plurals

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(sam or s-adenosylmethionine or (s adj adenosylmethionine)) and chondroitin and glucosamine and quercetin

Active

L1: (2350) flavonoid or flavone

L2: (1052) quercetin

L3: (3) ("5804594").PN.

L4: (50) ((chondroitin adj sulfate) or (keratan adj sulfate))

L5: (20422) sam or s-adenosylmethionine or (s adj adenosylmethionine)

L6: (5) (sam or s-adenosylmethionine or (s adj adenosylmethionine)) and chondroitin and glucosamine and quercetin

L7: (1080) sunscreen and (titanium adj dioxide)

L8: (0) (chondroitin adj sulfate) and (glucosamine adj sulfate)

L9: (34) sunscreen and (titanium adj dioxide) and (glucosamine adj sulfate)

L10: (140) myricetin

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Active

- L1: (2350) flavonoid or flavone
- L2: (1052) quercetin
- L3: (3) ("5804594").PN.
- L4: (50) ((chondroitin adj sulfate) or (keratan adj
- L5: (20422) sam or s-adenosylmethionine or (s a
- L6: (5) (sam or s-adenosylmethionine or (s adj ad
- L7: (1080) sunscreen and (titanium adj dioxide)
- L8: (0) (chondroitin adj sulfate) and (glucosamine
- L9: (34) sunscreen and (titanium adj dioxide) and
- L10: (140) myricetin

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Default operator: OR

sunscreen and (titanium adj dioxide) and chondroitin

	U	1	Document	Issue Da	Pag	Title	Current O	Current X	Retrieval	Inventor	S	C	P	3
1			US	2002022	17	Transdermal delivery	424/449			Dransfield,				
2			US	2001082	14	Silicone-treated	424/401	424/59;		Kanemaru,				
3			US	2001080	10	Pain reliever and	514/159	424/760;		Barr, Teresa Leigh				
4			US 6348201	2002021	16	External composition	424/401	435/822;		Murata, Katsumi et				
5			US 6342208	2002012	22	Oil-in-water emulsion	424/59	424/400;		Hyldgaard, Jorgen				
6			US 6329343	2001121	7	Bioadhesive	514/23	514/458;		Leung,				
7			US 6294186	2001092	33	Antimicrobial	424/405	424/401;		Beerse, Peter				
8			US 6217998	2001041	8	Method of applying	428/308.8	424/401;		Reinhardt, John G				
9			US 6197318	2001030	24	Composition for	424/401	424/195.18		Abe, Koji et al.				
10			US 6159480	2000121	9	Cosmetic makeup	424/401	424/59;		Tseng, Chung-Ye				
11			US 6080430	2000062	12	Powder coated with	424/490	424/459;		Ogawa, Katsuki et				
12			US 6074652	2000061	19	Oil-in-water emulsified	424/401	514/844;		Ishiwatari,				
13			US 6069169	2000053	10	OXA acids and related	514/532	424/70.1;		Ptchelintsev,				
14			US 5981606	1999110	39	Therapeutic	514/724	514/458;		Martin, Alain				
15			US 5951990	1999091	10	Ascorbyl-phosphoryl-ch	424/401	424/59;		Ptchelintsev,				
16			US 5932229	1999080	9	Oxa diacids and related	424/401	424/443;		Ptchelintsev,				

L10: (140) myricetin

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sunscreen and (titanium ad j dioxide) and chondroitin

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	U	1	Document	Issue	Da	Pag	Title	Current O	Current X	Retrieval	Inventor	S	C	P	3
20			US 5849272	1998121	9		Ultraviolet absorbing	424/59	424/401;		Baba, Katsuya et				
21			US 5830486	1998110	6		Cosmetic	424/401	424/61;		Nanba, Tomiyuki et				
22			US 5811114	1998092	5		Stabilized hinokitiol and	424/408	424/401;		Knight, Althea et				
23			US 5692302	1997120	48		Razor cartridges	30/41			Martin, Alain et al.				
24			US 5674912	1997100	44		Sunscreen-wound	514/724	424/59;		Martin, Alain				
25			US 5663208	1997090	41		Antifungal wound	514/724	424/600;		Martin, Alain				
26			US 5658957	1997081	49		Immunostimulating	514/724	424/502;		Martin, Alain				
27			US 5658956	1997081	131		Bioadhesive-wound	514/724	424/445;		Martin, Alain et al.				
28			US 5648380	1997071	41		Anti-inflammatory	514/461	514/284;		Martin, Alain				
29			US 5646190	1997070	41		Acne treating-wound	514/724	514/458;		Martin, Alain				
30			US 5641814	1997062	41		Antikeratolytic-wound	514/724	514/458;		Martin, Alain				
31			US 5633285	1997052	73		Cytoprotective wound	514/724	514/458;		Martin, Alain				
32			US 5614561	1997032	40		Antihistamine-wound	514/724	424/DIG.1		Martin, Alain				
33			US 5602183	1997021	42		Dermatological wound	514/724	424/DIG.1		Martin, Alain et al.				
34			US 4818614	1989040	45		Modified powder	428/403	106/481;		Fukui, Hiroshi et				

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myricetin and (chondroitin adj sulfate)

☒ DRG form
 ☒ GHS form
 ☒ Scope
 ☒ Text
 ☒ OTHER

	U	1	Document	Issue Da	Page	Title	Current O	Current X	Retrieval	Inventor	S	C	P	3	
1	R		US 6358539	2002031	15	Pharmaceutical	424/725	424/728;		Murad, Howard					
2	R		US 5972999	1999102	11	Pharmaceutical	514/474	424/417;		Murad, Howard					
3			US 5804594	1998090	11	Pharmaceutical	514/474	424/417;		Murad, Howard	R				
4	R		US 5145673	1992090		Quenching and	424/76.1	424/76.4;		Koizumi, Kazuo					
5	R		US 4885244	1989120		Method of producing	435/101	436/123;		Miyamori, Takao et					

sunscreen and (titanium adj dioxide) and chondroitin

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L11 ANSWER 1 OF 27 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 ACCESSION NUMBER: 2001:511207 BIOSIS
 DOCUMENT NUMBER: PREV200100511207
 TITLE: (Untitled.
 AUTHOR(S): Jawad, A. S. M. (1)
 CORPORATE SOURCE: (1) Royal London Hospital, Bancroft Road, London, E1 4DG UK
 SOURCE: Annals of the Rheumatic Diseases, (October, 2001) Vol. 60,
 No. 10, pp. 984. print.
 ISSN: 0003-4967.
 DOCUMENT TYPE: Letter
 LANGUAGE: English
 SUMMARY LANGUAGE: English
 IT Major Concepts
 Pharmacology; Rheumatology (Human Medicine, Medical Sciences)
 IT Diseases
 knee osteoarthritis: joint disease, management, symptoms
 IT Chemicals & Biochemicals
chondroitin sulfate: antiarrhythmic - drug,
 efficacy, safety; **glucosamine sulfate**:
 antiarrhythmic - drug, efficacy, safety; non-steroidal antiinflammatory
 drugs
 IT Alternate Indexing
 Osteoarthritis, Knee (MeSH)
 RN 9007-28-7 (**CHONDROITIN SULFATE**)
 29031-19-4 (**GLUCOSAMINE SULFATE**)

L11 ANSWER 2 OF 27 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 ACCESSION NUMBER: 2001:511206 BIOSIS
 DOCUMENT NUMBER: PREV200100511206
 TITLE: Management of knee osteoarthritis.
 AUTHOR(S): Leeb, B. F. (1)
 CORPORATE SOURCE: (1) Lower Austrian Centre for Rheumatology, Stockerau
 Hospital, Landstrasse 18, A-2000, Stockerau:
 leeb.khstockerau@aon.at Austria
 SOURCE: Annals of the Rheumatic Diseases, (October, 2001) Vol. 60,
 No. 10, pp. 984. print.
 ISSN: 0003-4967.
 DOCUMENT TYPE: Letter
 LANGUAGE: English
 SUMMARY LANGUAGE: English
 IT Major Concepts
 Pharmacology; Rheumatology (Human Medicine, Medical Sciences)
 IT Diseases
 knee osteoarthritis: joint disease, management
 IT Chemicals & Biochemicals
chondroitin sulfate: antiarrhythmic - drug;
 cyclooxygenase-2 inhibitors; **glucosamine sulfate**:
 antiarrhythmic - drug; non-steroidal antiinflammatory drugs;
 symptomatic slow acting drugs
 IT Alternate Indexing
 Osteoarthritis, Knee (MeSH)
 RN 9007-28-7 (**CHONDROITIN SULFATE**)
 29031-19-4 (**GLUCOSAMINE SULFATE**)

L11 ANSWER 3 OF 27 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 ACCESSION NUMBER: 2001:366050 BIOSIS
 DOCUMENT NUMBER: PREV200100366050
 TITLE: Glucosamine and **chondroitin sulfates** in
 the treatment of osteoarthritis: A survey.
 AUTHOR(S): de los Reyes, Gerlie C. (1); Koda, Robert T. (1); Lien,
 Eric J. (1)
 CORPORATE SOURCE: (1) Department of Pharmaceutical Sciences, School of
 Pharmacy, University of Southern California, Los Angeles,

CA, 90089 USA
SOURCE: Jucker, Ernst. Progress in Drug Research, (2000) Vol. 55,
pp. 81-103. Progress in Drug Research. print.
Publisher: Birkhaeuser Publishing Ltd. CH-4010, Basel,
Switzerland.
ISSN: 0071-786X. ISBN: 3-7643-6193-X (cloth).

DOCUMENT TYPE: Book

LANGUAGE: English

SUMMARY LANGUAGE: English

TI Glucosamine and **chondroitin sulfates** in the treatment
of osteoarthritis: A survey.

IT Major Concepts

Skeletal System (Movement and Support); Pharmacology

IT Diseases

osteoarthritis: joint disease

IT Chemicals & Biochemicals

chondroitin sulfate: adverse effect, antiarthritic

- drug, toxicity; **glucosamine sulfate**: adverse

effect, antiarthritic - drug, toxicity

IT Alternate Indexing

Osteoarthritis (MeSH)

RN 9007-28-7 (**CHONDROITIN SULFATE**)

29031-19-4 (**GLUCOSAMINE SULFATE**)

L11 ANSWER 4 OF 27 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 2001:366048 BIOSIS

DOCUMENT NUMBER: PREV200100366048

TITLE: Progress in Drug Research.

AUTHOR(S): Jucker, Ernst (1)

CORPORATE SOURCE: (1) Steinweg 28, CH-4107, Ettingen: jucker.pdr@bluewin.ch
Switzerland

SOURCE: Jucker, Ernst. Progress in Drug Research, (2000) Vol. 55,
pp. i-viii, 1-334. Progress in Drug Research. print.
Publisher: Birkhaeuser Publishing Ltd. CH-4010, Basel,
Switzerland.

ISSN: 0071-786X. ISBN: 3-7643-6193-X (cloth).

DOCUMENT TYPE: Book

LANGUAGE: English

SUMMARY LANGUAGE: English

AB This volume contains 7 separately authored articles on the latest
information in drug research. It also contains a title index and an author
and paper index for Volumes 1-55 of this series. A subject index and
bibliographical references are included.

IT . . .

disease/male, urologic disease

IT Chemicals & Biochemicals

androgen receptor; antineoplastic agent; antiviral agent; cardiotonic

agent: cardiovascular agent, quantitative structure-activity

relationships; **chondroitin sulfate**: antiarthritic -

drug; **glucosamine sulfate**: antiarthritic - drug;

morphine: growth regulator

IT Alternate Indexing

Hepatitis C (MeSH); Osteoarthritis (MeSH); Prostatic Neoplasms (MeSH)

RN 9007-28-7 (**CHONDROITIN SULFATE**)

29031-19-4 (**GLUCOSAMINE SULFATE**)

57-27-2 (MORPHINE)

L11 ANSWER 5 OF 27 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 2001:270702 BIOSIS

DOCUMENT NUMBER: PREV200100270702

TITLE: The effect of **chondroitin sulfate** on
the production of nitric oxide by human arthrosic
chondrocytes.

Original Title: Efecto del condroitin sulfato sobre la produccion de oxido nitrico por los condrocitos humanos artrosicos..

AUTHOR(S): Maneiro, Emilia; Fernandez Sueiro, Jose L.; Lema, Beatriz; de Toro, Francisco J.; Galdo, Fausto; Blanco, Francisco J. (1)

CORPORATE SOURCE: (1) Servicio de Reumatologia, Unidad de Investigacion, Hospital Juan Canalejo, 15006, La Coruna: Francisco_Blanco@canalejo.org Spain

SOURCE: Revista Espanola de Reumatologia, (Enero, 2001) Vol. 28, No. 1, pp. 12-17. print. ISSN: 0304-4815.

DOCUMENT TYPE: Article

LANGUAGE: Spanish

SUMMARY LANGUAGE: English; Spanish

AB Introduction: Arthrosic cartilage and in vitro chondrocytes release more nitric oxide (NO) than cartilage and normal chondrocytes. The NO probably has a pernicious effect on the articular cartilage. At present some components of the extracellular matrix (CEM) of the cartilage are used for the treatment of arthrosis. Aim: To study the effect of different CEM on the production of NO by human arthrosic chondrocytes. Material and methods: The chondrocytes were isolated from the femoral heads of the patients submitted to prosthetic surgery. The CEM studied were:

chondroitin sulfate, type II collagen, **glucosamine sulfate** and glucosamine chlorhydrate. The bottom of the dish was covered with the drug studied. The supernatant was later withdrawn and the cells and the LK-1 were added. The supernatant was collected at 72 hours and the NO quantified. Results: Of all the CEM studied, only **chondroitin sulfate** (CS) reduced the NO synthesis induced by IL-1, TNF and LPS. The NO levels induced by IL-1 decreased 21% using CS concentrations of 150 and 200 mug/ml. The CS concentration of 200 mug/ml reduced the effect of TNF 32% and the concentration of 150 mug/ml decreased the NO level induced by LPS by 31%. Conclusion: In this in vitro model CS inhibited NO synthesis.

TI The effect of **chondroitin sulfate** on the production of nitric oxide by human arthrosic chondrocytes.

Original Title: Efecto del condroitin sulfato sobre la produccion de . .

AB. . . methods: The chondrocytes were isolated from the femoral heads of the patients submitted to prosthetic surgery. The CEM studied were: **chondroitin sulfate**, type II collagen, **glucosamine sulfate** and glucosamine chlorhydrate. The bottom of the dish was covered with the drug studied. The supernatant was later withdrawn and. . . were added. The supernatant was collected at 72 hours and the NO quantified. Results: Of all the CEM studied, only **chondroitin sulfate** (CS) reduced the NO synthesis induced by IL-1, TNF and LPS. The NO levels induced by IL-1 decreased 21% using. . .

IT . . . disease, joint disease

IT Chemicals & Biochemicals

chondroitin sulfate: antiarthritic - drug; extracellular matrix components; glucosamine chlorhydrate: antiarthritic - drug; **glucosamine sulfate**: antiarthritic - drug; interleukin-1; lipopolysaccharide; nitric oxide; tumor necrosis factor; type II collagen: antiarthritic - drug

RN 29031-19-4 (**GLUCOSAMINE SULFATE**)
10102-43-9 (NITRIC OXIDE)

L11 ANSWER 6 OF 27 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 2001:253178 BIOSIS

DOCUMENT NUMBER: PREV200100253178

TITLE: Dietary regimen of nutritional supplements for relief of

symptoms of arthritis.
AUTHOR(S): Florio, Vito V. (1)
CORPORATE SOURCE: (1) Tamarac, FL USA
ASSIGNEE: Omni Nutraceuticals, Inc, Los Angeles, CA, USA
PATENT INFORMATION: US 6136795 October 24, 2000
SOURCE: Official Gazette of the United States Patent and Trademark
Office Patents, (Oct. 24, 2000) Vol. 1239, No. 4, pp. No
Pagination. e-file.
ISSN: 0098-1133.

DOCUMENT TYPE: Patent
LANGUAGE: English

AB This invention is directed to a dietary regimen and a unique combination of nutritional supplements and a method. More specifically, this invention is directed to a unique combination of nutritional supplements which provides symptomatic relief from arthritis. The unique combination of nutritional supplements of this invention is believed to function by both increasing the available (effective blood level) of anti-inflammatory agents and promotion of the healing/regenerative process in the effected joints, thus, producing unexpected and lasting symptomatic relief from the debilitating effects of both osteoarthritis and rheumatoid arthritis. The essential nutritional supplements of the dietary regimen of this invention are as follows: (a) gamma linolenic acid (unrefined), hereinafter "GLA" (b) a mixture of eicosapentaenoic acid and docosahexaenoic acid, hereinafter collectively "EPA" (c) a mixture of **chondroitin sulfate**, N-acetyl **glucosamine sulfate**, **glucosamine sulfate** and manganese aspartate, hereinafter collectively "CHONDROX" The regimen is adjusted based upon the weight of the individual, and once symptomatic relief is achieved, the individual remains essentially free from the debilitating effects of arthritis so as long the daily regimen is faithfully followed.

AB. . . acid (unrefined), hereinafter "GLA" (b) a mixture of eicosapentaenoic acid and docosahexaenoic acid, hereinafter collectively "EPA" (c) a mixture of **chondroitin sulfate**, N-acetyl **glucosamine sulfate**, **glucosamine sulfate** and manganese aspartate, hereinafter collectively "CHONDROX" The regimen is adjusted based upon the weight of the individual, and once symptomatic. . .

IT . . .
Rheumatology (Human Medicine, Medical Sciences); Methods and Techniques; Pharmacology

IT Diseases
arthritis: joint disease, treatment

IT Chemicals & Biochemicals
N-acetyl **glucosamine sulfate**; anti-inflammatory agents; **chondroitin sulfate**; docosahexaenoic acid; eicosapentaenoic acid; gamma linolenic acid; **glucosamine sulfate**; manganese aspartate; nutritional supplements

IT Alternate Indexing
Arthritis (MeSH)

RN 9007-28-7 (**CHONDROITIN SULFATE**)
6217-54-5Q (DOCOSAHEXAENOIC ACID)
25167-62-8Q (DOCOSAHEXAENOIC ACID)
32839-18-2Q (DOCOSAHEXAENOIC ACID)
10417-94-4Q (EICOSAPENTAENOIC ACID)
25378-27-2Q (EICOSAPENTAENOIC ACID)
32839-30-8Q (EICOSAPENTAENOIC ACID)
506-26-3 (GAMMA LINOLENIC ACID)
29031-19-4 (**GLUCOSAMINE SULFATE**)

L11 ANSWER 7 OF 27 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 2000:508880 BIOSIS
DOCUMENT NUMBER: PREV200000508880
TITLE: **Glucosamine sulfate** and

chondroitin sulfates for degenerative joint disease.

AUTHOR(S): Debi, R. (1); Robinson, D. (1); Agar, G. (1); Halperin, N. (1)
CORPORATE SOURCE: (1) Orthopedic Dept., Assaf Harofeh Medical Center, Zrifin Israel
SOURCE: Harefuah, (March 15, 2000) Vol. 138, No. 6, pp. 451-453, 518. print.
ISSN: 0017-7768.
DOCUMENT TYPE: Article
LANGUAGE: Hebrew
SUMMARY LANGUAGE: English; Hebrew

AB Osteoarthritis results from progressive catabolic loss of cartilage proteoglycans due to imbalance between synthesis and degradation. The availability of glucosamine, an intermediate in mucopolysaccharide synthesis, can be rate-limiting for proteoglycan production in cartilage tissue culture. 57 patients suffering from osteoarthritis of the knee were randomized into a group treated for 4 weeks with daily IV **glucosamine sulfate** (GS) together with 800 mg **chondroitin sulfate**, and a placebo group. Knee pain at rest, on movement and on palpation, as well as range of knee motion were then recorded. In the GS group, there was significant reduction of clinical symptoms ($p < 0.01$), but no significant reduction in the placebo group. Physicians' assessment of tenderness and range of motion were significantly in favor of the GS group ($p < 0.01$). In those treated with glycosamine there were no adverse reactions and no changes in laboratory blood tests. We conclude that GS can be considered the drug of choice for prolonged treatment of osteoarthritis.

TI **Glucosamine sulfate** and **chondroitin sulfates** for degenerative joint disease.

AB. . . 57 patients suffering from osteoarthritis of the knee were randomized into a group treated for 4 weeks with daily IV **glucosamine sulfate** (GS) together with 800 mg **chondroitin sulfate**, and a placebo group. Knee pain at rest, on movement and on palpation, as well as range of knee motion. . .

IT . . . skeletal system

IT Diseases
degenerative joint disease; osteoarthritis: joint disease

IT Chemicals & Biochemicals
cartilage proteoglycans: catabolic loss, degeneration, synthesis;
chondroitin sulfate: antiarthritic - drug;
glucosamine: mucopolysaccharide intermediate; **glucosamine sulfate**: antiarthritic - drug; glycosamine: antiarthritic - drug; mucopolysaccharide: synthesis

IT Alternate Indexing
Osteoarthritis (MeSH)

RN 9007-28-7 (**CHONDROITIN SULFATE**)
3416-24-8 (**GLUCOSAMINE**)
29031-19-4 (**GLUCOSAMINE SULFATE**)

L11 ANSWER 8 OF 27 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 1993:255622 BIOSIS

DOCUMENT NUMBER: PREV199395134797

TITLE: In-vitro evaluation of drugs proposed as chondroprotective agents.

AUTHOR(S): Bassleer, C. (1); Henrotin, Y.; Franchimont, P.

CORPORATE SOURCE: (1) Lab. of Radioimmunology, CHU, B23-4000 Liege Belgium

SOURCE: International Journal of Tissue Reactions, (1992) Vol. 14, No. 5, pp. 231-241.
ISSN: 0250-0868.

DOCUMENT TYPE: Article

LANGUAGE: English

AB Three proposed chondroprotective agents (CP), namely **glucosamine sulfate** (GAS), **chondroitin sulfate** (CS) and glycosaminoglycan-peptide complex (GP-C), were tested on differentiated human articular chondrocytes cultured in clusters. Chondrocyte productions of proteoglycans (PG), type II collagen (coll. II) and prostaglandin E-2 (PGE-2) were established by specific radioimmunoassays applied to the culture medium (CM) and in chondrocyte clusters (CC). Collagenolytic activity was assayed in CM. DNA synthesis, studied by measuring 3H-thymidine incorporation, was unaffected by CS and GAS. GP-C, at low concentration, stimulated DNA synthesis. GP-C, at higher doses, induced a high increase in PG and coll. II productions. GAS and CS induced a stimulatory effect limited to PG production. None of the CP tested here affected the basal PGE-2 production by human chondrocytes.

AB Three proposed chondroprotective agents (CP), namely **glucosamine sulfate** (GAS), **chondroitin sulfate** (CS) and glycosaminoglycan-peptide complex (GP-C), were tested on differentiated human articular chondrocytes cultured in clusters. Chondrocyte productions of proteoglycans (PG), . . .

IT . . . and Molecular Biophysics; Cell Biology; Endocrine System (Chemical Coordination and Homeostasis); Metabolism; Methods and Techniques; Pharmacology

IT Chemicals & Biochemicals
GLUCOSAMINE SULFATE; CHONDROITIN SULFATE

IT Miscellaneous Descriptors
CHONDROITIN SULFATE; GLUCOSAMINE SULFATE; GLYCOSAMINOGLYCAN-PEPTIDE COMPLEX; METABOLIC-DRUG; PROSTAGLANDIN E-2 PRODUCTION; TISSUE CULTURE

RN 29031-19-4 (**GLUCOSAMINE SULFATE**)
9007-28-7 (**CHONDROITIN SULFATE**)

L11 ANSWER 9 OF 27 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 1991:219045 BIOSIS
DOCUMENT NUMBER: BR40:104880
TITLE: INOSITOL-1 4 5-TRISPHOSPHATE-GATED CALCIUM CHANNELS IN CEREBELLUM AND SMOOTH MUSCLE EFFECTS OF POLYANIONS.
AUTHOR(S): WATRAS J; BEZPROZVANNY I; ONDRIAS K; EHRLICH B E
CORPORATE SOURCE: DEP., UNIV. CONN., FARMINGTON, CONN. 06030.
SOURCE: THIRTY-FIFTH ANNUAL MEETING OF THE BIOPHYSICAL SOCIETY, SAN FRANCISCO, CALIFORNIA, USA, FEBRUARY 24-28, 1991. BIOPHYS J, (1991) 59 (2 PART 2), 601A.
CODEN: BIOJAU. ISSN: 0006-3495.

DOCUMENT TYPE: Conference
FILE SEGMENT: BR; OLD
LANGUAGE: English

IT Miscellaneous Descriptors
ABSTRACT AORTA SKELETAL MUSCLE HEPARIN DE-N-SULFATE HEPARIN
CHONDROITIN SULFATES GLUCOSAMINE SULFATES POLYGALACTURONIC ACID

RN 7440-70-2 (CALCIUM)
9005-49-6 (HEPARIN)
9007-28-7 (**CHONDROITIN SULFATES**)
29031-19-4D (**GLUCOSAMINE SULFATES**)
88269-39-0 (INOSITOL-1 4 5-TRISPHOSPHATE)
9046-38-2Q, 25249-06-3Q (POLYGALACTURONIC ACID)

L11 ANSWER 10 OF 27 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 1983:216946 BIOSIS
DOCUMENT NUMBER: BA75:66946
TITLE: THE INFLUENCE OF HEXOSAMINE DERIVATIVES ON MESENCHYMAL METABOLISM IN FETAL BONE EXPLANTS STUDIES IN-VITRO.
AUTHOR(S): KARZEL K; LEE K J

CORPORATE SOURCE: INST. FUER PHARMAKOL. UND TOXIKOL. DER UNIV. BONN,
REUTERSTRASSE 2B, D-5300 BONN 1.
SOURCE: Z RHEUMATOL, (1982) 41 (5), 212-218.
CODEN: ZRHMBQ. ISSN: 0340-1855.
FILE SEGMENT: BA; OLD
LANGUAGE: German

AB Effects of hexosamine derivatives, glucuronic acid, **chondroitin sulfate** and oxyphenbutazone on growth and glycosaminoglycan metabolism of murine fetal bone explants cultured for 6 days in vitro were studied. Glucosamine hydrochloride, glucosamine hydroiodide and **glucosamine sulfate** (at concentrations of 100 .mu.g/ml) caused a significant increase in the growth of the explants; this effect was not due to an increase in cell multiplication, as can be concluded from the DNA content of the explants, but rather to an increase in the glycosaminoglycans in the extracellular cartilage matrix. The 3 glucosamine salts also induced an increase in the secretion of glycosaminoglycans from the surface of the explants into the culture medium. N-acetylgalactosamine, sodium glucuronide and **chondroitin sulfate** showed lesser or nonsignificant effects as compared to the glucosamine derivatives or the controls. Galactosamine hydrochloride (100 .mu.g/ml) exerted inhibitory actions on the bone explants. Oxyphenbutazone (10 .mu.g/ml) also led to a significant inhibition of the growth and glycosaminoglycan metabolism of the explants without influencing (at this concentration) their DNA content. In the treatment of [human] degenerative joint diseases, nonsteroidal antiphlogistics acting similarly to oxyphenbutazone should be used, if at all as cautiously as possible; drugs with the type of action observed in the 3 glucosamine derivatives could be expected to exert a beneficial effect.

AB Effects of hexosamine derivatives, glucuronic acid, **chondroitin sulfate** and oxyphenbutazone on growth and glycosaminoglycan metabolism of murine fetal bone explants cultured for 6 days in vitro were studied. Glucosamine hydrochloride, glucosamine hydroiodide and **glucosamine sulfate** (at concentrations of 100 .mu.g/ml) caused a significant increase in the growth of the explants; this effect was not due. . . increase in the secretion of glycosaminoglycans from the surface of the explants into the culture medium. N-acetylgalactosamine, sodium glucuronide and **chondroitin sulfate** showed lesser or nonsignificant effects as compared to the glucosamine derivatives or the controls. Galactosamine hydrochloride (100 .mu.g/ml) exerted inhibitory. . .

IT Miscellaneous Descriptors

MOUSE HUMAN OXYPHENYL BUTAZONE ANTIINFLAMMATORY GLUCURONIC-ACID
CHONDROITIN SULFATE GLUCOSAMINE HYDRO CHLORIDE
GLUCOSAMINE HYDRO IODIDE **GLUCOSAMINE SULFATE** N
ACETYL GALACTOSAMINE SODIUM GLUCURONIDE METABOLIC-DRUG NONSTEROIDAL
ANTI PHLOGISTICS DEGENERATIVE JOINT DISEASE GLYCOSAMINO GLYCAN
METABOLISM DNA GROWTH

RN 66-84-2 (GLUCOSAMINE HYDRO CHLORIDE)
129-20-4 (OXYPHENYL BUTAZONE)
3416-24-8 (GLUCOSAMINE)
7440-23-5 (SODIUM)
9007-28-7 (**CHONDROITIN SULFATE**)
29031-19-4 (**GLUCOSAMINE SULFATE**)
576-37-4Q, 6556-12-3Q (GLUCURONIC-ACID)
1811-31-0Q, 31022-50-1Q (N ACETYL GALACTOSAMINE)

L11 ANSWER 11 OF 27 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 1981:246525 BIOSIS

DOCUMENT NUMBER: BA72:31509

TITLE: CHARACTERIZATION OF EPIDERMAL GLYCOSAMINO GLYCANS
SYNTHESIZED IN ORGAN CULTURE.

AUTHOR(S): KING I A

CORPORATE SOURCE: MRC UNIT EXP. PATHOL. SKIN., MED. SCH., BIRMINGHAM, B15

2TJ.

SOURCE: BIOCHIM BIOPHYS ACTA, (1981) 674 (1), 87-95.
CODEN: BBACAQ. ISSN: 0006-3002.

FILE SEGMENT: BA; OLD

LANGUAGE: English

AB Cellulose acetate electrophoresis with specific enzymic and chemical degradation procedures indicated that **hyaluronic acid** (83%) and heparan sulfate (14%) were the major glycosaminoglycans synthesized by the epidermis when pig ear skin slices were cultured in the presence of D-[3H]glucosamine and 35SO42-, 81% and 50%, respectively, of the total amount of each epidermal glycosaminoglycan was extracellular. Total epidermal glycosaminoglycan synthesis decreased by 50% after 5 days in culture. When the epidermis was cultured in the absence of the dermis the synthesis of **hyaluronic acid** was reduced considerably. The synthesis of sulfated glycosaminoglycans was essentially unaffected by the absence of the dermis. All-trans-retinoic acid 10-5 M stimulated the synthesis of **hyaluronic acid** and to a lesser extent sulfated glycosaminoglycans, whether the dermis was absent or present during culture. **Hyaluronic acid** may play an important role in some aspects of epidermal differentiation.

AB Cellulose acetate electrophoresis with specific enzymic and chemical degradation procedures indicated that **hyaluronic acid** (83%) and heparan sulfate (14%) were the major glycosaminoglycans synthesized by the epidermis when pig ear skin slices were cultured. . . . 50% after 5 days in culture. When the epidermis was cultured in the absence of the dermis the synthesis of **hyaluronic acid** was reduced considerably. The synthesis of sulfated glycosaminoglycans was essentially unaffected by the absence of the dermis. All-trans-retinoic acid 10-5 M stimulated the synthesis of **hyaluronic acid** and to a lesser extent sulfated glycosaminoglycans, whether the dermis was absent or present during culture. **Hyaluronic acid** may play an important role in some aspects of epidermal differentiation.

IT Miscellaneous Descriptors
 FIG D **GLUCOSAMINE SULFATE** ALL TRANS RETINOIC-ACID
 METABOLIC-DRUG EPIDERMAL DIFFERENTIATION **HYALURONIC-ACID** HEPARAN SULFATE

RN 302-79-4 (ALL TRANS RETINOIC-ACID)
 3416-24-8 (D GLUCOSAMINE)
 9004-61-9 (**HYALURONIC-ACID**)
 9050-30-0 (HEPARAN SULFATE)
 14808-79-8 (SULFATE)

L11 ANSWER 12 OF 27 MEDLINE

ACCESSION NUMBER: 2002165123 IN-PROCESS

DOCUMENT NUMBER: 21895052 PubMed ID: 11896744

TITLE: Sulfur in human nutrition and applications in medicine.

AUTHOR: Parcell Stephen

CORPORATE SOURCE: ND candidate, 2002, Bastyr University, Seattle, WA;
 Research Associate, American Institute for Biosocial and
 Medical Research (AIBMR) in Tacoma, WA; Correspondence
 address: 6210 35th Ave NE, Seattle, WA 98115; e-mail:.
 steveparcell@attbi.com

SOURCE: ALTERNATIVE MEDICINE REVIEW, (2002 Feb) 7 (1) 22-44.
 Journal code: 9705340. ISSN: 1089-5159.

PUB. COUNTRY: United States
 Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: IN-PROCESS; NONINDEXED; K

ENTRY DATE: Entered STN: 20020319
 Last Updated on STN: 20020319

AB Because the role of elemental sulfur in human nutrition has not been studied extensively, it is the purpose of this article to emphasize the importance of this element in humans and discuss the therapeutic

applications of sulfur compounds in medicine. Sulfur is the sixth most abundant macromineral in breast milk and the third most abundant mineral based on percentage of total body weight. The sulfur-containing amino acids (SAAs) are methionine, cysteine, cystine, homocysteine, homocystine, and taurine. Dietary SAA analysis and protein supplementation may be indicated for vegan athletes, children, or patients with HIV, because of an increased risk for SAA deficiency in these groups.

Methylsulfonylmethane (MSM), a volatile component in the sulfur cycle, is another source of sulfur found in the human diet. Increases in serum sulfate may explain some of the therapeutic effects of MSM, DMSO, and **glucosamine sulfate**. Organic sulfur, as SAAs, can be used to increase synthesis of S-adenosylmethionine (SAME), glutathione (GSH), taurine, and N-acetylcysteine (NAC). MSM may be effective for the treatment of allergy, pain syndromes, athletic injuries, and bladder disorders. Other sulfur compounds such as SAME, dimethylsulfoxide (DMSO), taurine, glucosamine or **chondroitin sulfate**, and reduced glutathione may also have clinical applications in the treatment of a number of conditions such as depression, fibromyalgia, arthritis, interstitial cystitis, athletic injuries, congestive heart failure, diabetes, cancer, and AIDS. Dosages, mechanisms of action, and rationales for use are discussed. The low toxicological profiles of these sulfur compounds, combined with promising therapeutic effects, warrant continued human clinical trials.

AB . . . found in the human diet. Increases in serum sulfate may explain some of the therapeutic effects of MSM, DMSO, and **glucosamine sulfate**. Organic sulfur, as SAAs, can be used to increase synthesis of S-adenosylmethionine (SAME), glutathione (GSH), taurine, and N-acetylcysteine (NAC). MSM. . . of allergy, pain syndromes, athletic injuries, and bladder disorders. Other sulfur compounds such as SAME, dimethylsulfoxide (DMSO), taurine, glucosamine or **chondroitin sulfate**, and reduced glutathione may also have clinical applications in the treatment of a number of conditions such as depression, fibromyalgia, . . .

L11 ANSWER 13 OF 27 MEDLINE
ACCESSION NUMBER: 2001644508 MEDLINE
DOCUMENT NUMBER: 21064116 PubMed ID: 11123100
TITLE: Evidence of nutraceutical effectiveness in the treatment of osteoarthritis.
AUTHOR: Reginster J Y; Gillot V; Bruyere O; Henrotin Y
CORPORATE SOURCE: Bone and Cartilage Metabolism Research Unit, CHU Centre-Ville, Policliniques L. Brull, Quai Godefroid Kurth 45 (9 eme etage), 4020 LIEGE, Liege, Belgium..
SOURCE: jyreginster@ulg.ac.be
CURRENT RHEUMATOLOGY REPORTS, (2000 Dec) 2 (6) 472-7. Ref: 50
Journal code: 100888970. ISSN: 1523-3774.
PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200112
ENTRY DATE: Entered STN: 20011108
Last Updated on STN: 20020121
Entered Medline: 20011207

AB Several entities have been carefully investigated for the symptomatic and structural management of osteoarthritis. The most compelling evidence of a potential for inhibiting the structural progression of osteoarthritis has been obtained with **glucosamine sulfate**, while some preliminary results also suggest that **chondroitin sulfate** could be used in the same indication. At any rate, these

two compounds have clearly demonstrated a symptomatic action, mainly in osteoarthritis of the lower limbs. Symptomatic effect on pain relief and improvement of functional disability was also reported with the use of avocado/soybean extracts. Other nutraceuticals, including ginger extracts, should be more extensively investigated. An important issue is that all the conclusive studies with such chemical entities resulted from the use of prescription medicines, and not over-the-counter pills or food supplements.

AB . . . of osteoarthritis. The most compelling evidence of a potential for inhibiting the structural progression of osteoarthritis has been obtained with **glucosamine sulfate**, while some preliminary results also suggest that **chondroitin sulfate** could be used in the same indication. At any rate, these two compounds have clearly demonstrated a symptomatic action, mainly.

CT Check Tags: Female; Human; Male

***Chondroitin Sulfates: AD, administration & dosage**

*Complementary Therapies: MT, methods

Controlled Clinical Trials

*Dietary Supplements

*Glucosamine: AD, administration & dosage

Osteoarthritis: . . .

RN 3416-24-8 (Glucosamine); **9007-28-7 (Chondroitin Sulfates)**

L11 ANSWER 14 OF 27 MEDLINE

ACCESSION NUMBER: 2001356992 MEDLINE

DOCUMENT NUMBER: 21310612 PubMed ID: 11416939

TITLE: Determining the efficacy of glucosamine and chondroitin for osteoarthritis.

AUTHOR: O'Rourke M

SOURCE: NURSE PRACTITIONER, (2001 Jun) 26 (6) 44-6, 49-52. Ref: 36
Journal code: OA1; 7603663. ISSN: 0361-1817.

PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

(REVIEW, TUTORIAL)

LANGUAGE: English

FILE SEGMENT: Priority Journals; Nursing Journals

ENTRY MONTH: 200111

ENTRY DATE: Entered STN: 20011105

Last Updated on STN: 20011105

Entered Medline: 20011101

AB **Glucosamine sulfate and chondroitin**

sulfate are being used by many patients for the treatment of osteoarthritis. Despite a number of studies supporting efficacy of these agents for palliation of joint pain in patients with osteoarthritis, the American College of Rheumatology Subcommittee on Osteoarthritis believes that it is too early to issue recommendations for use. Currently, the National Institute of Arthritis and Musculoskeletal and Skin Diseases in collaboration with the National Center for Complementary and Alternative Medicine have begun a pivotal study to thoroughly evaluate these agents.

AB **Glucosamine sulfate and chondroitin**

sulfate are being used by many patients for the treatment of osteoarthritis. Despite a number of studies supporting efficacy of these.

L11 ANSWER 15 OF 27 MEDLINE

ACCESSION NUMBER: 2001283165 MEDLINE

DOCUMENT NUMBER: 20700406 PubMed ID: 11366557

TITLE: Anecdotal reports: elderberry extract plus chondroitin and **glucosamine sulfate** and Thy-mate reduces viral load to non-detectable levels in 10 days.

AUTHOR: Anonymous

SOURCE: Posit Health News, (1998 Fall) (No 17) 7-11.
Journal code: 9890538.
PUB. COUNTRY: United States
(NEWSPAPER ARTICLE)
LANGUAGE: English
FILE SEGMENT: AIDS
ENTRY MONTH: 200005
ENTRY DATE: Entered STN: 20010529
Last Updated on STN: 20020222
Entered Medline: 20000503

AB Several HIV patients offer anecdotal reports in which they attribute significant viral load reductions to taking elderberry extract. Thy-Mate was also used. Case studies from six patients are presented. In an interview, Steven Rahn describes his self-imposed treatment and its effect on his viral load. Another case discusses reports of dicalcium phosphate, a binding agent found in some dietary supplements such as glucosamine, inhibiting absorption of the supplements. Other cases are described, and contact information is included.

TI Anecdotal reports: elderberry extract plus chondroitin and **glucosamine sulfate** and Thy-mate reduces viral load to non-detectable levels in 10 days.

CT Check Tags: Human
AIDS-Related Opportunistic Infections: PC, prevention & control
Calcium Phosphates: CH, chemistry
***Chondroitin Sulfates: TU, therapeutic use**
*Complementary Therapies
Drug Synergism
Drug Therapy, Combination
*Glucosamine: TU, therapeutic use
*HIV Infections: DT, drug therapy

RN 10103-46-5 (calcium phosphate); 3416-24-8 (Glucosamine); **9007-28-7 (Chondroitin Sulfates)**

L11 ANSWER 16 OF 27 MEDLINE
ACCESSION NUMBER: 2001283164 MEDLINE
DOCUMENT NUMBER: 20700405 PubMed ID: 11366556
TITLE: Sulfated polysaccharides (**chondroitin sulfate** and carrageenan) plus **glucosamine sulfate** are potent inhibitors of HIV.

AUTHOR: Konlee M
SOURCE: Posit Health News, (1998 Fall) (No 17) 4-7.
Journal code: 9890538.

PUB. COUNTRY: United States
(NEWSPAPER ARTICLE)

LANGUAGE: English
FILE SEGMENT: AIDS
ENTRY MONTH: 200005
ENTRY DATE: Entered STN: 20010529
Last Updated on STN: 20020222
Entered Medline: 20000503

AB **Chondroitin sulfate**, a fusion inhibitor found in human milk, appears to work by blocking the ability of a virus, such as HIV, to infect a cell. There are questions about whether cow or goat milk can offer the same fusion-inhibiting benefits. One sulfated monosaccharide, glucosamine 6-sulfate, appears to have significant anti-HIV activity. Carrageenan, a seaweed derivative, shows promise as a vaginal microbicide, and should be tested further to determine its effectiveness against HIV transmission.

TI Sulfated polysaccharides (**chondroitin sulfate** and carrageenan) plus **glucosamine sulfate** are potent inhibitors of HIV.

AB **Chondroitin sulfate**, a fusion inhibitor found in human

milk, appears to work by blocking the ability of a virus, such as HIV, . .

CT Check Tags: Human
Agar: TU, therapeutic use
Antigens, CD4: ME, metabolism
*Carrageenan: TU, therapeutic use
 ***Chondroitin Sulfates: TU, therapeutic use**
*Complementary Therapies
 Drug Therapy, Combination
*Excipients: TU, therapeutic use
 Glucosamine
 HIV Envelope Protein gp120: ME, metabolism

RN 3416-24-8 (Glucosamine); 7631-86-9 (Silicon Dioxide); 9000-07-1
(Carrageenan); 9002-18-0 (Agar); **9007-28-7 (Chondroitin Sulfates)**

L11 ANSWER 17 OF 27 MEDLINE
ACCESSION NUMBER: 2001283150 MEDLINE
DOCUMENT NUMBER: 20700407 PubMed ID: 11366542
TITLE: A new triple combination therapy.
AUTHOR: Konlee M
SOURCE: Posit Health News, (1998 Fall) (No 17) 12-4.
Journal code: 9890538.
PUB. COUNTRY: United States
(NEWSPAPER ARTICLE)
LANGUAGE: English
FILE SEGMENT: AIDS
ENTRY MONTH: 200005
ENTRY DATE: Entered STN: 20010529
Last Updated on STN: 20020222
Entered Medline: 20000503

AB Elderberry, chondroitin, and **glucosamine sulfate** have been found to block HIV replication at three distinct points in the replication cycle. For quadruple therapy, a reverse transcriptase inhibitor such as olive leaf extract or Epivir (3TC) could be added. In one case, a female, taking no HIV drugs, used an elderberry extract, called Sambucol, with olive leaf extract and experienced a viral load drop from 17,000 to 4,000. Instructions are given for making both alcohol-free and alcohol-based elderberry extracts. In 1993, researchers at Jerusalem's Hebrew University Medical School found in a placebo-controlled double-blind study that Sambucol led to a rapid recovery from influenza and inhibited replication of nine other strains of the flu virus. A theory is that elderberry renders viruses nonfunctional by staining and coating them. Another promising treatment is soil based organisms, which improved Natural Killer cell function in a person with CFIDS.

AB Elderberry, chondroitin, and **glucosamine sulfate** have been found to block HIV replication at three distinct points in the replication cycle. For quadruple therapy, a reverse. . .

CT Check Tags: Human
 ***Chondroitin Sulfates: TU, therapeutic use**
*Complementary Therapies
 Cookery
 Drug Therapy, Combination
*Glucosamine: TU, therapeutic use
*HIV Infections: DT, drug therapy
 Plant. . .

RN 3416-24-8 (Glucosamine); **9007-28-7 (Chondroitin Sulfates)**

L11 ANSWER 18 OF 27 MEDLINE
ACCESSION NUMBER: 2001113996 MEDLINE
DOCUMENT NUMBER: 21003126 PubMed ID: 11127967
TITLE: Glucosamine and **chondroitin sulfates** in the treatment of osteoarthritis: a survey.

AUTHOR: de los Reyes G C; Koda R T; Lien E J
 CORPORATE SOURCE: Department of Pharmaceutical Sciences, School of Pharmacy,
 University of Southern California, Los Angeles, CA 90089,
 USA.
 SOURCE: PROGRESS IN DRUG RESEARCH, (2000) 55 81-103. Ref: 51
 Journal code: Q0S. ISSN: 0071-786X.
 PUB. COUNTRY: Switzerland
 Journal; Article; (JOURNAL ARTICLE)
 General Review; (REVIEW)
 (REVIEW, TUTORIAL)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 200102
 ENTRY DATE: Entered STN: 20010322
 Last Updated on STN: 20010322
 Entered Medline: 20010215

AB For more than 30 years, non-steroidal anti-inflammatory drugs (NSAIDs)
 have been used as standards in the treatment of osteoarthritis (OA).
 Serious and often life-threatening adverse effects due to these agents are
 common. Clinical findings have revealed that **glucosamine
 sulfate** and **chondroitin sulfate** are effective
 and safer alternatives to alleviate symptoms of OA. Experimental evidence
 indicates that these compounds and their low molecular weight derivatives
 have a particular tropism for cartilage where they serve as substrates in
 the biosynthesis of component building blocks. This paper is a literature
 review of the chemistry, mechanism of action, pharmacokinetics, clinical
 efficacy and safety of these two nutraceuticals.

TI Glucosamine and **chondroitin sulfates** in the treatment
 of osteoarthritis: a survey.

AB . . . of osteoarthritis (OA). Serious and often life-threatening
 adverse effects due to these agents are common. Clinical findings have
 revealed that **glucosamine sulfate** and
chondroitin sulfate are effective and safer alternatives
 to alleviate symptoms of OA. Experimental evidence indicates that these
 compounds and their low molecular. . .

L11 ANSWER 19 OF 27 MEDLINE
 ACCESSION NUMBER: 2000339372 MEDLINE
 DOCUMENT NUMBER: 20339372 PubMed ID: 10883158
 TITLE: GAG for osteoarthritis of the knee--a prospective study.
 AUTHOR: Debi R; Robinson D; Agar G; Halperin N
 CORPORATE SOURCE: Orthopedic Dept., Assaf Harofeh Medical Center, Zrifin.
 SOURCE: HAREFUAH, (2000 Mar 15) 138 (6) 451-3, 518.
 Journal code: FZF; 0034351. ISSN: 0017-7768.
 PUB. COUNTRY: Israel
 (CLINICAL TRIAL)
 Journal; Article; (JOURNAL ARTICLE)
 (RANDOMIZED CONTROLLED TRIAL)
 LANGUAGE: Hebrew
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 200007
 ENTRY DATE: Entered STN: 20000810
 Last Updated on STN: 20000810
 Entered Medline: 20000726

AB Osteoarthritis results from progressive catabolic loss of cartilage
 proteoglycans due to imbalance between synthesis and degradation. The
 availability of glucosamine, an intermediate in mucopolysaccharide
 synthesis, can be rate-limiting for proteoglycan production in cartilage
 tissue culture. 57 patients suffering from osteoarthritis of the knee were
 randomized into a group treated for 4 weeks with daily i.v.
glucosamine sulfate (GS) together with 800 mg
chondroitin sulfate, and a placebo group. Knee pain at
 rest, on movement and on palpation, as well as range of knee motion were

then recorded. In the GS group, there was significant reduction of clinical symptoms ($p < 0.01$), but no significant reduction in the placebo group. Physicians' assessment of tenderness and range of motion were significantly in favor of the GS group ($p < 0.01$). In those treated with glycosamine there were no adverse reactions and no changes in laboratory blood tests. We conclude that GS can be considered the drug of choice for prolonged treatment of osteoarthritis.

AB . . . 57 patients suffering from osteoarthritis of the knee were randomized into a group treated for 4 weeks with daily i.v. **glucosamine sulfate** (GS) together with 800 mg **chondroitin sulfate**, and a placebo group. Knee pain at rest, on movement and on palpation, as well as range of knee motion. . .

CT Check Tags: Comparative Study; Female; Human; Male

Adult

Aged

Aged, 80 and over

***Chondroitin Sulfates: TU, therapeutic use**

*Glucosamine: TU, therapeutic use

Glycosaminoglycans: TU, therapeutic use

*Knee Joint

Middle Age

*Osteoarthritis: DT, drug therapy

RN 3416-24-8 (Glucosamine); 9007-28-7 (**Chondroitin Sulfates**)

L11 ANSWER 20 OF 27 MEDLINE

ACCESSION NUMBER: 1999446182 MEDLINE

DOCUMENT NUMBER: 99446182 PubMed ID: 10516985

TITLE: Nutrition and dietary supplements.

AUTHOR: Fillmore C M; Bartoli L; Bach R; Park Y

CORPORATE SOURCE: Pendleton Community Care, Franklin, West Virginia, USA.

SOURCE: PHYSICAL MEDICINE AND REHABILITATION CLINICS OF NORTH

AMERICA, (1999 Aug) 10 (3) 673-703. Ref: 177

Journal code: CX9; 9102787. ISSN: 1047-9651.

PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

(REVIEW, TUTORIAL)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199911

ENTRY DATE: Entered STN: 20000111

Last Updated on STN: 20000111

Entered Medline: 19991116

AB Quality and number of subjects in blinded controlled clinical trials about the nutrition and dietary supplements discussed here is variable.

Glucosamine sulfate and chondroitin

sulfate have sufficient controlled trials to warrant their use in osteoarthritis, having less side effects than currently used nonsteroidal anti-inflammatory drugs, and are the only treatment shown to prevent progression of the disease. Dietary supplements of ephedrine plus caffeine for weight loss (weight loss being the current first line recommendation of physicians for osteoporosis) show some promise, but are not sufficient in number of study subjects. Phenylpropanolamine is proven successful in weight loss. Both ephedrine and phenylpropanolamine have resulted in deaths and hence are worrisome [table: see text] as an over-the-counter dietary supplement. Other commonly used weight loss supplements like Cola acuminata, dwarf elder, Yohimbine, and Garcinia camborgia are either lacking controlled clinical trials, or in the case of the last two supplements, have clinical trials showing lack of effectiveness (although Garcinia has been successful in trials as part of a mixture with other substances, it is unclear if it was a necessary part of the mixture). Safety of these weight loss supplements is unknown. Chromium as a body

building supplement for athletes appears to have no efficacy. Creatine may help more in weight lifting than sprinting, but insufficient study subjects and safety information make more studies necessary. Carbohydrate loading is used commonly before endurance competitions, but may be underused as it may be beneficial for other sport performances. Supplements for muscle injury or cramps have had too few studies to determine efficacy. Although proper rehydration with fluids and electrolytes is necessary, a paucity of actual studies to maximize prophylactic treatment for exercise induced cramping still exists. Nutritional supplements for cardiovascular disorders are generally geared to prevention. The United States Department of Agriculture has good recommendations to prevent atherosclerosis; a stricter version by Ornish was shown to reverse coronary heart disease, and the low meat, high fruit, and vegetable DASH diet has been found to decrease hypertension. The epidemiologic studies of hyperhomocysteinemia are impressive enough to give folic acid (or vitamin B6 or B12) supplements to those with elevated homocysteine levels and test patients who have a history of atherosclerotic disease, but no controlled clinical trials have been completed. Soluble fiber has several positive studies in reduction of cholesterol levels and generally is accepted. The data on vitamin E are the most confusing. This vitamin was not helpful in cerebrovascular prevention in China and not helpful at relatively small doses (50 mg) in the United States or Finland against major coronary events. Levels of 400 mg appeared to decrease cardiovascular disease in the United States in studies based on reports by patients and in one large clinical trial. Vitamin E also was successful in prevention of restenosis after PTCA in one clinical trial. Both of these clinical trials need to be repeated in other developed country populations. Some nutritional and dietary supplements are justifiably useful at this point in time. Several meet the criteria of a late Phase 3 FDA clinical trial (where it would be released for public use), but many dietary supplements have insufficient numbers of studies. Some deaths also have occurred with some supplements. If these supplements were required to undergo clinical trials necessary for a new drug by the FDA, they would not be released yet to the public. Several nontoxic supplements appear promising, though need further study. Because they have essentially no toxicity (such as folic acid with B12, soluble fiber, and vitamin E) and may have efficacy, some of these supplementations may be useful now, without randomized clinical trials.

AB Quality and number of subjects in blinded controlled clinical trials about the nutrition and dietary supplements discussed here is variable.

Glucosamine sulfate and chondroitin

sulfate have sufficient controlled trials to warrant their use in osteoarthritis, having less side effects than currently used nonsteroidal anti-inflammatory drugs, . . .

L11 ANSWER 21 OF 27 MEDLINE
 ACCESSION NUMBER: 1999316135 MEDLINE
 DOCUMENT NUMBER: 99316135 PubMed ID: 10383484
 TITLE: **Glucosamine sulfate.**
 AUTHOR: Anonymous
 SOURCE: ALTERNATIVE MEDICINE REVIEW, (1999 Jun) 4 (3) 193-5.
 Journal code: C2X; 9705340. ISSN: 1089-5159.
 PUB. COUNTRY: United States
 Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: K
 ENTRY MONTH: 199908
 ENTRY DATE: Entered STN: 19990827
 Last Updated on STN: 19990827
 Entered Medline: 19990817

AB **Glucosamine sulfate's** role in halting or reversing joint degeneration appears to be directly due to its ability to act as an essential substrate for, and to stimulate the biosynthesis of, the

glycosaminoglycans and the **hyaluronic acid** backbone needed for the formation of the proteoglycans found in the structural matrix of joints. Successful treatment of osteoarthritis must effectively control pain and should slow down or reverse the progression of the degeneration. Biochemical and pharmacological data combined with animal and human studies demonstrate that **glucosamine sulfate** is capable of satisfying both of these criteria.

TI **Glucosamine sulfate.**

AB **Glucosamine sulfate's** role in halting or reversing joint degeneration appears to be directly due to its ability to act as an essential substrate for, and to stimulate the biosynthesis of, the glycosaminoglycans and the **hyaluronic acid** backbone needed for the formation of the proteoglycans found in the structural matrix of joints. Successful treatment of osteoarthritis must. . . down or reverse the progression of the degeneration. Biochemical and pharmacological data combined with animal and human studies demonstrate that **glucosamine sulfate** is capable of satisfying both of these criteria.

L11 ANSWER 22 OF 27 MEDLINE
ACCESSION NUMBER: 1999284912 MEDLINE
DOCUMENT NUMBER: 99284912 PubMed ID: 10356424
TITLE: Nutraceuticals as therapeutic agents in osteoarthritis. The role of glucosamine, **chondroitin sulfate**, and collagen hydrolysate.
AUTHOR: Deal C L; Moskowitz R W
CORPORATE SOURCE: Division of Rheumatology, Case Western Reserve University School of Medicine, University Hospitals, Cleveland, Ohio, USA.
SOURCE: RHEUMATIC DISEASES CLINICS OF NORTH AMERICA, (1999 May) 25 (2) 379-95. Ref: 38
Journal code: RDC; 8708093. ISSN: 0889-857X.
PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199907
ENTRY DATE: Entered STN: 19990730
Last Updated on STN: 19990730
Entered Medline: 19990716

AB There are a sufficient number of short-term studies with these agents suggesting efficacy equal to that seen in the symptomatic treatment of OA using NSAIDs. Two recent meta-analyses by McAlindon and colleagues and Towheed et al reviewed clinical trials of glucosamine and chondroitin in the treatment of osteoarthritis. The study by McAlindon and co-workers included all double-blind placebo-controlled trials of greater than 4 weeks' duration, testing oral or parenteral glucosamine or chondroitin for treatment of hip or knee osteoarthritis. Thirteen trials (six with glucosamine, seven with chondroitin) met eligibility criteria. The authors used global pain score or the Lequesne index in the index joint as the primary outcome measure and considered the trial positive if improvement in the treatment group was equal to or greater than 25% compared with the placebo group, and was significant ($P < \text{or} = .05$). All 13 studies reviewed were classified as positive, demonstrating large effects, compared with placebo (39.5% [S.D. 21.9] for glucosamine, 40.2% [S.D. 6.4] for chondroitin). The authors concluded that clinical trials of these two agents showed substantial benefit in the treatment of osteoarthritis but provided insufficient information about study design and conduct to allow definitive evaluation. Towheed and colleagues reviewed nine randomized, controlled trials of **glucosamine sulfate** in osteoarthritis. In seven of the randomized controlled trials, in which

they compared glucosamine with placebo, glucosamine was always superior. In two randomized controlled trials comparing glucosamine to ibuprofen, glucosamine was superior in one and equivalent in one. Methodologic problems, including lack of standardized case definition of osteoarthritis and lack of standardized outcome assessment led the authors to conclude that further studies are needed to determine if route of administration is important and whether the therapeutic effect is site specific. A meta-analysis of **chondroitin sulfate** trials has also been published. Of the 12 published trials, 4 randomized double-blind placebo or NSAID-controlled trials with 227 patients on **chondroitin sulfate** were entered into the analysis. All four studies showed **chondroitin sulfate** to be superior to placebo, with respect to Lequesne index, visual analog scale for pain and medication consumption. Significant changes ($P < \text{or} = .05$) were seen in those treated from day 60 to the study endpoints (150 to 180 days). Pooled data demonstrated at least 50% improvement in the study variables in the chondroitin treated group. Discrepancies in some of the study findings reported in the literature may relate to the composition of the nutritional supplements used. Studies in the United States have revealed that a number of preparations claiming to contain certain doses of glucosamine or **chondroitin sulfate** have significantly less (or none) of the dosages described. Accordingly, it is essential that studies performed with these agents use preparations that are carefully defined in manufacture. The amounts generally administered are glucosamine, 1500 mg, and **chondroitin sulfate**, 1200 mg, daily. Although glucosamine has been described as effective when used alone, it is probably reasonable to use the combination pending further studies. The average cost is approximately \$30 to \$45 per month. In the interim, what should physicians tell their patients when they ask whether these agents are effective, or whether they should or should not take them? The authors emphasize that these agents are not FDA-evaluated or recommended for the treatment of OA. They are available as health food supplements, and the number of studies of toxicity, particularly with respect to long-term evaluations, is limited. The pros and cons of these agents and the published data are described so that patients can make a reasonably informed decision as to whether they wish to proceed with use of these agents in therapy. (ABSTRACT TRUNCATED)

TI Nutraceuticals as therapeutic agents in osteoarthritis. The role of glucosamine, **chondroitin sulfate**, and collagen hydrolysate.

AB . . . insufficient information about study design and conduct to allow definitive evaluation. Towheed and colleagues reviewed nine randomized, controlled trials of **glucosamine sulfate** in osteoarthritis. In seven of the randomized controlled trials, in which they compared glucosamine with placebo, glucosamine was always superior. . . . needed to determine if route of administration is important and whether the therapeutic effect is site specific. A meta-analysis of **chondroitin sulfate** trials has also been published. Of the 12 published trials, 4 randomized double-blind placebo or NSAID-controlled trials with 227 patients on **chondroitin sulfate** were entered into the analysis. All four studies showed **chondroitin sulfate** to be superior to placebo, with respect to Lequesne index, visual analog scale for pain and medication consumption. Significant changes. . . . Studies in the United States have revealed that a number of preparations claiming to contain certain doses of glucosamine or **chondroitin sulfate** have significantly less (or none) of the dosages described. Accordingly, it is essential that studies performed with these agents use preparations that are carefully defined in manufacture. The amounts generally administered are glucosamine, 1500 mg, and **chondroitin sulfate**, 1200 mg, daily. Although glucosamine has been described as effective when used alone, it is probably reasonable to use the. . . .

CT Check Tags: Animal; Human

***Chondroitin Sulfates: TU, therapeutic use**

Clinical Trials

*Collagen: TU, therapeutic use

*Drugs, Non-Prescription: TU, therapeutic use

*Glucosamine: TU, therapeutic use

*Osteoarthritis: . . .

RN 3416-24-8 (Glucosamine); 9007-28-7 (Chondroitin Sulfates);
9007-34-5 (Collagen)

L11 ANSWER 23 OF 27 MEDLINE

ACCESSION NUMBER: 1999275244 MEDLINE

DOCUMENT NUMBER: 99275244 PubMed ID: 10343776

TITLE: Stimulation of proteoglycan production by
glucosamine sulfate in chondrocytes
isolated from human osteoarthritic articular cartilage in
vitro.

AUTHOR: Bassleer C; Rovati L; Franchimont P

CORPORATE SOURCE: Department of Rheumatology, University Hospital, Liege,
Belgium.. Corinne.Bassleer@ulg.ac.be

SOURCE: OSTEOARTHRITIS AND CARTILAGE, (1998 Nov) 6 (6) 427-34.
Journal code: CCO; 9305697. ISSN: 1063-4584.

PUB. COUNTRY: ENGLAND: United Kingdom
Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199906

ENTRY DATE: Entered STN: 19990628
Last Updated on STN: 19990628
Entered Medline: 19990614

AB OBJECTIVE: This study investigated the in-vitro effects of a crystalline
glucosamine sulfate (GS) preparation on DNA synthesis
and on proteoglycan (PG) and type II collagen (coll II) production by
human articular chondrocytes isolated from human osteoarthritic articular
cartilage in a 3-dimensional culture system for 4, 8, and 12 days.
MATERIALS AND METHODS: Human articular chondrocytes from osteoarthritic
femoral heads were isolated from their matrix by collagenase digestion and
then cultured in suspension. Under constant agitation, cells aggregated
and formed a cluster within a few days. The effects of GS (1-100
micrograms/ml) on chondrocytes were determined by quantifying DNA
synthesis (by measurement of [3H]-thymidine uptake) as well as PG and coll
II production using radiomunoassays (RIAs) specific for coll II and to
human human cartilage PG. Cross-reaction with GS in the RIAs was not
detected. Moreover, PG size distribution was determined by exclusion
chromatography under associative conditions to determine the association
of PG monomers with **hyaluronic acid** (HA) to form large
molecular weight PG aggregates. RESULTS: Under the above conditions, PG
production in culture media and chondrocyte clusters was increased by GS
(10-100 micrograms/ml). DNA synthesis and coll II production were not
modified by GS. In addition, GS did not modify the physico-chemical form
of PG produced by cells during culture. CONCLUSIONS: **Glucosamine
sulfate** did not affect DNA synthesis nor coll II production but
caused a statistically significant stimulation of PG production by
chondrocytes from human osteoarthritic cartilage cultured for up to 12
days in 3-dimensional cultures.

TI Stimulation of proteoglycan production by **glucosamine
sulfate** in chondrocytes isolated from human osteoarthritic
articular cartilage in vitro.

AB OBJECTIVE: This study investigated the in-vitro effects of a crystalline
glucosamine sulfate (GS) preparation on DNA synthesis
and on proteoglycan (PG) and type II collagen (coll II) production by
human articular chondrocytes. . . Moreover, PG size distribution was
determined by exclusion chromatography under associative conditions to
determine the association of PG monomers with **hyaluronic**

acid (HA) to form large molecular weight PG aggregates. RESULTS: Under the above conditions, PG production in culture media and chondrocyte. . . modified by GS. In addition, GS did not modify the physico-chemical form of PG produced by cells during culture. CONCLUSIONS: **Glucosamine sulfate** did not affect DNA synthesis nor coll II production but caused a statistically significant stimulation of PG production by chondrocytes. . .

L11 ANSWER 24 OF 27 MEDLINE
ACCESSION NUMBER: 1998262758 MEDLINE
DOCUMENT NUMBER: 98262758 PubMed ID: 9600024
TITLE: The role of **glucosamine sulfate** and **chondroitin sulfates** in the treatment of degenerative joint disease.
AUTHOR: Kelly G S
SOURCE: ALTERNATIVE MEDICINE REVIEW, (1998 Feb) 3 (1) 27-39. Ref: 34
Journal code: C2X; 9705340. ISSN: 1089-5159.
PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LANGUAGE: English
FILE SEGMENT: K
ENTRY MONTH: 199806
ENTRY DATE: Entered STN: 19980618
Last Updated on STN: 19980618
Entered Medline: 19980605

AB Successful treatment of osteoarthritis must effectively control pain, and should slow down or reverse progression of the disease. Biochemical and pharmacological data combined with animal and human studies demonstrate **glucosamine sulfate** is capable of satisfying these criteria. **Glucosamine sulfate's** primary biological role in halting or reversing joint degeneration appears to be directly due to its ability to act as an essential substrate for, and to stimulate the biosynthesis of, the glycosaminoglycans and the **hyaluronic acid** backbone needed for the formation of proteoglycans found in the structural matrix of joints. **Chondroitin sulfates**, whether they are absorbed intact or broken into their constituent components, similarly provide additional substrates for the formation of a healthy joint matrix. Evidence also supports the oral administration of **chondroitin sulfates** for joint disease, both as an agent to slowly reduce symptoms and to reduce the need for non-steroidal anti-inflammatory drugs. The combined use of **glucosamine sulfate** and **chondroitin sulfates** in the treatment of degenerative joint disease has become an extremely popular supplementation protocol in arthritic conditions of the joints. Although **glucosamine sulfate** and **chondroitin sulfates** are often administered together, there is no information available to demonstrate the combination produces better results than **glucosamine sulfate** alone.

TI The role of **glucosamine sulfate** and **chondroitin sulfates** in the treatment of degenerative joint disease.

AB . . . should slow down or reverse progression of the disease. Biochemical and pharmacological data combined with animal and human studies demonstrate **glucosamine sulfate** is capable of satisfying these criteria. **Glucosamine sulfate's** primary biological role in halting or reversing joint degeneration appears to be directly due to its ability to act as an essential substrate for, and to stimulate the biosynthesis of, the glycosaminoglycans and the **hyaluronic acid** backbone needed for the formation of proteoglycans found in the structural matrix of joints.

Chondroitin sulfates, whether they are absorbed intact or broken into their constituent components, similarly provide additional substrates for the formation of a healthy joint matrix. Evidence also supports the oral administration of **chondroitin sulfates** for joint disease, both as an agent to slowly reduce symptoms and to reduce the need for non-steroidal anti-inflammatory drugs. The combined use of **glucosamine sulfate** and **chondroitin sulfates** in the treatment of degenerative joint disease has become an extremely popular supplementation protocol in arthritic conditions of the joints. Although **glucosamine sulfate** and **chondroitin sulfates** are often administered together, there is no information available to demonstrate the combination produces better results than **glucosamine sulfate** alone.

CT Check Tags: Human

Chondroitin Sulfates: CH, chemistry

Chondroitin Sulfates: ME, metabolism

***Chondroitin Sulfates: TU, therapeutic use**

Drug Therapy, Combination

Glucosamine: ME, metabolism

*Glucosamine: TU, therapeutic use

*Osteoarthritis: DT, drug therapy

RN 3416-24-8 (Glucosamine); 9007-28-7 (**Chondroitin Sulfates**)

L11 ANSWER 25 OF 27 MEDLINE

ACCESSION NUMBER: 93239408 MEDLINE

DOCUMENT NUMBER: 93239408 PubMed ID: 1300309

TITLE: In-vitro evaluation of drugs proposed as chondroprotective agents.

AUTHOR: Bassleer C; Henrotin Y; Franchimont P

CORPORATE SOURCE: Laboratory of Radioimmunology, University of Liege, Belgium.

SOURCE: INTERNATIONAL JOURNAL OF TISSUE REACTIONS, (1992) 14 (5) 231-41.

Journal code: GTG; 8302116. ISSN: 0250-0868.

PUB. COUNTRY: Switzerland

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199305

ENTRY DATE: Entered STN: 19930611

Last Updated on STN: 19930611

Entered Medline: 19930521

AB Three proposed chondroprotective agents (CP), namely **glucosamine sulfate** (GAS), **chondroitin sulfate** (CS) and glycosaminoglycan-peptide complex (GP-C), were tested on differentiated human articular chondrocytes cultured in clusters. Chondrocyte productions of proteoglycans (PG), type II collagen (coll. II) and prostaglandin E2 (PGE2) were established by specific radioimmunoassays applied to the culture medium (CM) and in chondrocyte clusters (CC). Collagenolytic activity was assayed in CM. DNA synthesis, studied by measuring 3H-thymidine incorporation, was unaffected by CS and GAS. GP-C, at low concentration, stimulated DNA synthesis. GP-C, at higher doses, induced a high increase in PG and coll. II productions. GAS and CS induced a stimulatory effect limited to PG production. None of the CP tested here affected the basal PGE2 production by human chondrocytes.

AB Three proposed chondroprotective agents (CP), namely **glucosamine sulfate** (GAS), **chondroitin sulfate** (CS) and glycosaminoglycan-peptide complex (GP-C), were tested on differentiated human articular chondrocytes cultured in clusters. Chondrocyte productions of proteoglycans (PG), . . .

CT Check Tags: Human

Cartilage, Articular: CY, cytology

*Cartilage, Articular: DE, drug effects

Cells, Cultured

***Chondroitin Sulfates**: PD, pharmacology

Collagen: AN, analysis

Collagen: BI, biosynthesis

Dinoprostone: AN, analysis

Dinoprostone: BI, biosynthesis

*Glucosamine: PD, pharmacology

Glycosaminoglycans: CH, . . .

RN 3416-24-8 (Glucosamine); 363-24-6 (Dinoprostone); 50-89-5 (Thymidine);

9007-28-7 (**Chondroitin Sulfates**); 9007-34-5 (Collagen)

L11 ANSWER 26 OF 27 MEDLINE

ACCESSION NUMBER: 91051825 MEDLINE

DOCUMENT NUMBER: 91051825 PubMed ID: 2146882

TITLE: Early accumulation of heparan sulfate in neurons and in the beta-amyloid protein-containing lesions of Alzheimer's disease and Down's syndrome.

AUTHOR: Snow A D; Mar H; Nochlin D; Sekiguchi R T; Kimata K; Koike Y; Wight T N

CORPORATE SOURCE: Department of Pathology, University of Washington, Seattle 98195.

CONTRACT NUMBER: P50 AG05136 (NIA)

SOURCE: AMERICAN JOURNAL OF PATHOLOGY, (1990 Nov) 137 (5) 1253-70.

Journal code: 3RS; 0370502. ISSN: 0002-9440.

PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals

ENTRY MONTH: 199012

ENTRY DATE: Entered STN: 19910208

Last Updated on STN: 20000303

Entered Medline: 19901211

AB A monoclonal antibody (HK-249) that recognizes a **glucosamine sulfate** alpha 1----4 glucuronic acid-containing determinant in heparan sulfate (HS) chains of a basement membrane-derived heparan sulfate proteoglycan identified and immunolocalized HS specifically to the amyloid deposits in neuritic plaques (NPs), congophilic angiopathy (CA), as well as in neurofibrillary tangles (NFTs) and non-tangle-bearing neurons in the brains of Alzheimer's and Down's syndrome (DS) patients. Ultrastructural immunohistochemistry demonstrated that HS within neurons of Alzheimer's disease (AD) brain was localized to lipofuscin granules, an aging pigment previously shown also to contain beta-amyloid protein (BAP). Heparan sulfate also was localized to neurite-containing, nonfibrillar 'primitive' plaques that also demonstrated positive BAP immunoreactivity in both AD and DS brains. Antibodies to laminin, fibronectin, and a **chondroitin sulfate** proteoglycan failed to show positive immunostaining of the HS-containing sites described above. Analysis of DS patients at different ages revealed that HS accumulated within neurons of the hippocampus and amygdala as early as 1 day after birth. Young age-matched controls did not demonstrate similar positive HS immunoreactivity in neurons, whereas positive immunostaining for HS was observed in other regions thought to normally contain HS. The earliest deposition of BAP was first observed as 'amorphous' or 'diffuse' cortical deposits in DS brain in patients aged 18 and 24 years before the accumulation of fibrillar amyloid (observed in DS patients who are 35 years and older). These cortical deposits also contained positive HS immunoreactivity, implying that HS accumulation in conjunction with the BAP is an early event that ultimately may contribute to the early age-related accumulation (ie, as early as 35 years of age in DS) of NPs, NFTs, and/or CA. Furthermore the colocalization of HS and BAP in a number of specific locales in AD and DS brain indicates a possible interaction between these two macromolecules that may be important in lesion development in these two diseases.

AB A monoclonal antibody (HK-249) that recognizes a **glucosamine sulfate** alpha 1----4 glucuronic acid-containing determinant in heparan sulfate (HS) chains of a basement membrane-derived heparan sulfate proteoglycan identified and immunolocalized. . . 'primitive' plaques that also demonstrated positive BAP immunoreactivity in both AD and DS brains. Antibodies to laminin, fibronectin, and a **chondroitin sulfate** proteoglycan failed to show positive immunostaining of the HS-containing sites described above. Analysis of DS patients at different ages revealed. . .

L11 ANSWER 27 OF 27 MEDLINE

ACCESSION NUMBER: 83122526 MEDLINE

DOCUMENT NUMBER: 83122526 PubMed ID: 6818789

TITLE: [Effect of hexosamine derivatives on mesenchymal metabolic processes of in vitro cultured fetal bone explants].
Über den Einfluss von Hexosaminderivaten auf mesenchymale Stoffwechselprozesse in vitro gezuchteter fetaler Knochenanlagen.

AUTHOR: Karzel K; Lee K J

SOURCE: ZEITSCHRIFT FÜR RHEUMATOLOGIE, (1982 Sep-Oct) 41 (5) 212-8.
Journal code: Y0V; 0414162. ISSN: 0340-1855.

PUB. COUNTRY: GERMANY, WEST: Germany, Federal Republic of
Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: German

FILE SEGMENT: Priority Journals

ENTRY MONTH: 198303

ENTRY DATE: Entered STN: 19900318

Last Updated on STN: 20000303

Entered Medline: 19830311

AB The effects of hexosamine derivatives, glucuronic acid, **chondroitin sulfate**, and oxyphenbutazone on growth and glycosaminoglycan metabolism of murine fetal bone explants cultured for 6 days in vitro were studied. Glucosamine hydrochloride, glucosamine hydroiodide and **glucosamine sulfate** (at concentrations of 100 micrograms/ml) caused a significant increase in the growth of the explants; this effect was not due to an increase in cell multiplication, as can be concluded from the DNA content of the explants, but rather to an increase in the glycosaminoglycans in the extracellular cartilage matrix. In addition, the three glucosamine salts induced an increase in the secretion of glycosaminoglycans from the surface of the explants into the culture medium. N-acetylgalactosamine, sodium glucuronide and **chondroitin sulfate** showed lesser or nonsignificant effects as compared to the glucosamine derivatives or the controls. Galactosamine hydrochloride (100 micrograms/ml) exerted inhibitory actions on the bone explants. Oxyphenbutazone (10 micrograms/ml), also, led to a significant inhibition of the growth and glycosaminoglycan metabolism of the explants without influencing (at this concentration) their DNA content. From the results obtained it is concluded that in the treatment of degenerative joint diseases nonsteroidal antiphlogistics acting similarly to oxyphenbutazone should be used, if at all, as cautiously as possible, whereas drugs with the type of action observed in the three glucosamine derivatives could be expected to exert a beneficial effect.

AB The effects of hexosamine derivatives, glucuronic acid, **chondroitin sulfate**, and oxyphenbutazone on growth and glycosaminoglycan metabolism of murine fetal bone explants cultured for 6 days in vitro were studied. Glucosamine hydrochloride, glucosamine hydroiodide and **glucosamine sulfate** (at concentrations of 100 micrograms/ml) caused a significant increase in the growth of the explants; this effect was not due. . . increase in the secretion of glycosaminoglycans from the surface of the explants into the culture medium. N-acetylgalactosamine, sodium glucuronide and **chondroitin sulfate** showed lesser or nonsignificant effects as compared to the glucosamine derivatives or the controls. Galactosamine hydrochloride (100

micrograms/ml) exerted inhibitory. . .

CT Check Tags: Animal; Female

*Bone Development: DE, drug effects

Bone and Bones

Chondroitin Sulfates: PD, pharmacology

Fetus

Glucuronates: PD, pharmacology

Glucuronic Acid

Glycosaminoglycans: ME, metabolism

*Hexosamines: PD, pharmacology

Mice

Mice, Inbred Strains

RN 129-20-4 (Oxyphenbutazone); 576-37-4 (Glucuronic Acid); **9007-28-7**
(**Chondroitin Sulfates**)

(FILE 'HOME' ENTERED AT 18:07:09 ON 21 MAR 2002)

FILE 'HCAPLUS, CAPLUS' ENTERED AT 18:07:39 ON 21 MAR 2002

L1	38308	S	CHONDROITIN SULFATE OR KERATAN SULFATE OR DERMATAN SULFATE OR
L2	86	S	L1 AND GLUCOSAMINE SULFATE
L3	11154	S	MYRICETIN OR GENESTEIN OR KAEMPFEROL
L4	0	S	L3 AND L2
L5	4	S	L2 AND FLAVONOID
L6	0	S	L5 AND OLIVE OIL
L7	0	S	L5 AND DIPHENHYDRAMINE
L8	6	S	L3 AND DIPHENHYDRAMINE
L9	0	S	L8 AND L2

FILE 'BIOSIS, MEDLINE' ENTERED AT 18:15:26 ON 21 MAR 2002

L10	29420	S	L1
L11	27	S	L2
L12	0	S	L4
L13	0	S	L5
L14	0	S	L6
L15	0	S	L11 AND DIPHENHYDRAMINE
L16	0	S	L8

L8 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:791417 HCAPLUS
DOCUMENT NUMBER: 134:141121
TITLE: Next-generation universal columns for RPLC
AUTHOR(S): Verstraeten, Will; de Zeeuw, Jaap; Crombeen, Jim;
Vonk, Nico
CORPORATE SOURCE: Varian Chrompack, Middelburg, 4330, Neth.
SOURCE: American Laboratory (Shelton, Connecticut) (2000),
32(20), 20,22,24-25,28-29
CODEN: ALBYBL; ISSN: 0044-7749
PUBLISHER: International Scientific Communications, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The OmniSpher 5 C18 packing material (Varian Chrompack, Middelburg, The Netherlands) can be used for the anal. of neutral, acidic, and basic compds., making it a true universal RPLC column. The OmniSpher 5 C18 is a high carbon loading and ligand d. stationary phase for RPLC. The characteristics and applications of the column are described. The column demonstrates high column efficiency, good column stability for continuous use, to have practical pH range between 2.0 and 8.0, and to be compatible for high-speed LC and LC-MS.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 50-21-5, Lactic acid, analysis 50-48-6, Amitriptyline 50-49-7,
Imipramine 58-08-2, Caffeine, analysis 58-73-1,
Diphenhydramine 62-53-3, Aniline, analysis 64-18-6, Formic
acid, analysis 66-22-8, Uracil, analysis 72-69-5, Nortriptyline
76-57-3, Codeine 84-15-1, o-Terphenyl 91-23-6, 2-Nitroanisole
95-53-4, o-Toluidine, analysis 100-01-6, 4-Nitroaniline, analysis
100-41-4, Ethylbenzene, analysis 100-46-9, Benzylamine, analysis
100-61-8, N-Methylaniline, analysis 103-65-1, Propylbenzene 106-49-0,
p-Toluidine, analysis 108-44-1, m-Toluidine, analysis 108-88-3,
Toluene, analysis 108-95-2, Phenol, analysis 110-86-1, Pyridine,
analysis 117-39-5, Quercetin 122-99-6, Phenoxyethanol 130-95-0,
Quinine 153-18-4, Rutin 154-23-4, Catechin 217-59-4, Triphenylene
438-60-8, Protriptyline 480-16-0, Morin 480-41-1, Naringenin
490-46-0, Epi-Catechin 520-18-3, **Kaempferol** 520-36-5,
Apigenin 529-44-2, **Myricetin** 578-54-1, 2-Ethylaniline
1668-19-5, Doxepin
RL: ANT (Analyte); PEP (Physical, engineering or chemical process); ANST
(Analytical study); PROC (Process)
(analyte; OmniSpher 5 C18 universal columns for RPLC sepn. of)

L8 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1998:112253 HCAPLUS
DOCUMENT NUMBER: 128:176159
TITLE: Treatment of stress-induced skin disease by
corticotropin releasing hormone antagonists and skin
mast cell degranulation inhibitors
INVENTOR(S): Theoharides, Theoharis C.
PATENT ASSIGNEE(S): Kos Pharmaceuticals, Inc., USA
SOURCE: PCT Int. Appl., 19 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9805354	A2	19980212	WO 1997-US13776	19970806
WO 9805354	A3	19980514		

W: AU, CA, NZ

RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
US 6020305 A 20000201 US 1996-689277 19960806
AU 9739089 A1 19980225 AU 1997-39089 19970806
EP 942749 A2 19990922 EP 1997-936413 19970806
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI

PRIORITY APPLN. INFO.: US 1996-689277 19960806
WO 1997-US13776 19970806

AB A method of reducing or blocking a stress-related atopic skin disease (e.g. eczema or urticaria) in a subject comprises administering to the patient an agent that antagonizes CRH-induced activation of skin mast cells, the agent being used alone or together with a second agent that inhibits activation of skin mast cells. Such agents include compns. that reduce the prodn. or secretion of CRH, neurotensin or somatostatin or an agent that inhibits the physiol. action of CRH, neurotensin or somatostatin on skin mast cells. The effects of CRH on skin mast cells can also be inhibited by histamine-3 receptor antagonists and by inhibitors of the phosphorylation of skin mast cell moesin.

IT 58-73-1, **Diphenhydramine** 68-88-2, Hydroxyzine 68-88-2D, Hydroxyzine, analogs 110-85-0D, Piperazine, derivs. 520-18-3, **Kaempferol** 1668-19-5, Doxepin 7294-27-1D, Bichromone, derivs. 16110-51-3, Cromolyn 16110-51-3D, Cromolyn, analogs 50679-08-8, Terfenadine 203257-41-4

RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(CRH antagonists and skin mast cell degranulation inhibitors for treatment of stress-induced skin disease)

L8 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1995:338755 HCAPLUS

DOCUMENT NUMBER: 122:150993

TITLE: Evaluation of chemopreventive agents in different mechanistic classes [by] using a rat tracheal epithelial cell culture transformation assay

AUTHOR(S): Arnold, Julia T.; Wilkinson, Betty P.; Sharma, Sheela; Steele, Vernon E.

CORPORATE SOURCE: Cellular and Molecular Toxicology Program, ManTech Environmental Technology, Research Triangle Park, NC, 27709, USA

SOURCE: Cancer Res. (1995), 55(3), 537-43

CODEN: CNREA8; ISSN: 0008-5472

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The rat tracheal epithelial (RTE) cell focus inhibition assay was used to identify potential anticarcinogenic agents. Ninety-nine compds. were evaluated for their ability to inhibit benzo[a]pyrene-induced transformation of RTE cells. Freshly isolated RTE cells were exposed to benzo[a]pyrene alone or in combination with a substance to be tested. After 30 days in culture, transformed foci were scored and inhibition was quantitated. Foci formation was inhibited mainly by agents which modulate the initiation of carcinogenesis by altering drug-metabolizing enzymes, inhibiting the binding of benzo[a]pyrene to DNA, enhancing detoxification of activated carcinogens, or by inducing epithelial cell differentiation. Such agents include antioxidants, free-radical scavengers, glutathione S-transferase enhancers, vitamins, retinoids, and SH compds. Agents which inhibit ornithine decarboxylase and arachidonic acid metab. were not as effective. The RTE assay provides important data for compd. selection prior to whole-animal-screening assays in the development of carcinogenesis-inhibiting drugs.

IT 50-78-2, Acetylsalicylic acid 52-53-9, Verapamil 53-43-0, Dehydroepiandrosterone 53-86-1, Indomethacin 56-40-6, Glycine, biological studies 57-55-6, Propylene glycol, biological studies 58-27-5, Vitamin K3 58-73-1, **Diphenhydramine** 58-93-5,

Hydrochlorothiazide 59-30-3, Folic acid, biological studies 59-51-8,
 DL-Methionine 59-67-6, Nicotinic acid, biological studies 60-23-1,
 Cysteamine 60-54-8, Tetracycline 60-82-2, Phloretin 60-87-7,
 Promethazine 61-73-4, Methylene blue 62-46-4, Thioctic acid 69-65-8,
 D-Mannitol 69-93-2, Uric acid, biological studies 73-31-4, Melatonin
 74-79-3, Arginine, biological studies 77-52-1, Ursolic acid 79-63-0,
 Lanosterol 83-46-5, .beta.-Sitosterol 83-86-3, Inositol hexaphosphate
 83-89-6, Quinacrine 87-11-6, Thiolutin 99-73-0, p-Bromophenacyl
 bromide 110-17-8, Fumaric acid, biological studies 121-32-4,
 Ethylvanillin 121-33-5, Vanillin 121-79-9, Propyl gallate 129-46-4,
 Sodium suramin 137-66-6, Ascorbyl palmitate 141-84-4,
 2-Thioxo-4-thiazolidinone 146-17-8, Riboflavin 5'-phosphate 150-13-0,
 p-Aminobenzoic acid 150-76-5, p-Methoxyphenol 155-58-8, Rhapontin
 305-84-0, Carnosine 327-97-9, Chlorogenic acid 331-39-5, Caffeic acid
 458-37-7, Curcumin 471-53-4, .alpha.-Glycyrrhetic acid 471-80-7,
 Steviol 479-61-8 480-16-0, Morin 486-12-4, Triprolidine 520-36-5,
 Apigenin 529-44-2, **Myricetin** 532-11-6, Anethole trithione
 569-65-3, Meclizine 592-88-1, Diallyl sulfide 599-79-1, Sulfasalazine
 622-78-6, Benzyl isothiocyanate 624-49-7, Dimethyl fumarate 1135-24-6,
 Ferulic acid 1191-85-1, ETYA 1449-05-4, .beta.-Glycyrrhetic acid
 2050-87-5, Diallyl trisulfide 2179-58-0, Allyl methyl disulfide
 2257-09-2, Phenethylisothiocyanate 2609-46-3, Amiloride 3766-08-3,
 DL-Palmitoylcarnitine 5697-56-3, Carbenoxolone 6385-02-0, Sodium
 meclofenamate 7235-40-7, .beta.-Carotene 7631-95-0, Sodium molybdate
 7772-98-7, Sodium thiosulfate 8050-81-5, Simethicone 9003-39-8,
 Polyvinylpyrrolidone 10102-18-8, Sodium selenite 11103-57-4, Vitamin A
 15826-37-6, Sodium cromolyn 17407-37-3, .alpha.-Tocopherol succinate
 22916-47-8, Miconazole 25496-72-4, Glycerol monooleate 34135-85-8,
 Allyl methyl trisulfide 38194-50-2, Sulindac 52942-31-1, Etoperidone
 55268-74-1, Praziquantel 57455-81-9, MAK 5 64224-21-1, Oltipraz
 65595-90-6, N-(6-Aminohexyl)-5-chloro-1-naphthalenesulfonamide
 75330-75-5, Lovastatin 75775-33-6, Purpurin 79331-86-5, MAK 4
 91531-30-5, Antineoplaston A10 92285-01-3, Ajoene 110683-02-8
 160371-97-1, BASF 47851 160372-07-6, Ro 16-9100 160372-08-7, Ro
 19-2968 161279-28-3, BASF 47848 161279-29-4, BASF 47850 161279-30-7,
 BASF 51328

RL: BAC (Biological activity or effector, except adverse); THU
 (Therapeutic use); BIOL (Biological study); USES (Uses)
 (screening of drugs for inhibiting carcinogenesis by using rat tracheal
 epithelial cell culture)

L8 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:791417 CAPLUS

DOCUMENT NUMBER: 134:141121

TITLE: Next-generation universal columns for RPLC

AUTHOR(S): Verstraeten, Will; de Zeeuw, Jaap; Crombeen, Jim;
 Vonk, Nico

CORPORATE SOURCE: Varian Chrompack, Middelburg, 4330, Neth.

SOURCE: American Laboratory (Shelton, Connecticut) (2000),
 32(20), 20,22,24-25,28-29

CODEN: ALBYBL; ISSN: 0044-7749

PUBLISHER: International Scientific Communications, Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The OmniSpher 5 C18 packing material (Varian Chrompack, Middelburg, The
 Netherlands) can be used for the anal. of neutral, acidic, and basic
 compds., making it a true universal RPLC column. The OmniSpher 5 C18 is a
 high carbon loading and ligand d. stationary phase for RPLC. The
 characteristics and applications of the column are described. The column
 demonstrates high column efficiency, good column stability for continuous
 use, to have practical pH range between 2.0 and 8.0, and to be compatible
 for high-speed LC and LC-MS.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 50-21-5, Lactic acid, analysis 50-48-6, Amitriptyline 50-49-7, Imipramine 58-08-2, Caffeine, analysis 58-73-1, **Diphenhydramine** 62-53-3, Aniline, analysis 64-18-6, Formic acid, analysis 66-22-8, Uracil, analysis 72-69-5, Nortriptyline 76-57-3, Codeine 84-15-1, o-Terphenyl 91-23-6, 2-Nitroanisole 95-53-4, o-Toluidine, analysis 100-01-6, 4-Nitroaniline, analysis 100-41-4, Ethylbenzene, analysis 100-46-9, Benzylamine, analysis 100-61-8, N-Methylaniline, analysis 103-65-1, Propylbenzene 106-49-0, p-Toluidine, analysis 108-44-1, m-Toluidine, analysis 108-88-3, Toluene, analysis 108-95-2, Phenol, analysis 110-86-1, Pyridine, analysis 117-39-5, Quercetin 122-99-6, Phenoxyethanol 130-95-0, Quinine 153-18-4, Rutin 154-23-4, Catechin 217-59-4, Triphenylene 438-60-8, Protriptyline 480-16-0, Morin 480-41-1, Naringenin 490-46-0, Epi-Catechin 520-18-3, **Kaempferol** 520-36-5, Apigenin 529-44-2, **Myricetin** 578-54-1, 2-Ethylaniline 1668-19-5, Doxepin
 RL: ANT (Analyte); PEP (Physical, engineering or chemical process); ANST (Analytical study); PROC (Process)
 (analyte; OmniSpher 5 C18 universal columns for RPLC sepn. of)

L8 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1998:112253 CAPLUS

DOCUMENT NUMBER: 128:176159

TITLE: Treatment of stress-induced skin disease by corticotropin releasing hormone antagonists and skin mast cell degranulation inhibitors

INVENTOR(S): Theoharides, Theoharis C.

PATENT ASSIGNEE(S): Kos Pharmaceuticals, Inc., USA

SOURCE: PCT Int. Appl., 19 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9805354	A2	19980212	WO 1997-US13776	19970806
WO 9805354	A3	19980514		
W: AU, CA, NZ				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 6020305	A	20000201	US 1996-689277	19960806
AU 9739089	A1	19980225	AU 1997-39089	19970806
EP 942749	A2	19990922	EP 1997-936413	19970806
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				

PRIORITY APPLN. INFO.: US 1996-689277 19960806
 WO 1997-US13776 19970806

AB A method of reducing or blocking a stress-related atopic skin disease (e.g. eczema or urticaria) in a subject comprises administering to the patient an agent that antagonizes CRH-induced activation of skin mast cells, the agent being used alone or together with a second agent that inhibits activation of skin mast cells. Such agents include compns. that reduce the prodn. or secretion of CRH, neurotensin or somatostatin or an agent that inhibits the physiol. action of CRH, neurotensin or somatostatin on skin mast cells. The effects of CRH on skin mast cells can also be inhibited by histamine-3 receptor antagonists and by inhibitors of the phosphorylation of skin mast cell moesin.

IT 58-73-1, **Diphenhydramine** 68-88-2, Hydroxyzine 68-88-2D, Hydroxyzine, analogs 110-85-0D, Piperazine, derivs. 520-18-3, **Kaempferol** 1668-19-5, Doxepin 7294-27-1D, Bichromone, derivs. 16110-51-3, Cromolyn 16110-51-3D, Cromolyn, analogs 50679-08-8,

Terfenadine 203257-41-4

RL: BAC (Biological activity or effector, except adverse); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)

(CRH antagonists and skin mast cell degranulation inhibitors for
treatment of stress-induced skin disease)

L8 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1995:338755 CAPLUS

DOCUMENT NUMBER: 122:150993

TITLE: Evaluation of chemopreventive agents in different
mechanistic classes [by] using a rat tracheal
epithelial cell culture transformation assay

AUTHOR(S): Arnold, Julia T.; Wilkinson, Betty P.; Sharma, Sheela;
Steele, Vernon E.

CORPORATE SOURCE: Cellular and Molecular Toxicology Program, ManTech
Environmental Technology, Research Triangle Park, NC,
27709, USA

SOURCE: Cancer Res. (1995), 55(3), 537-43

CODEN: CNREA8; ISSN: 0008-5472

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The rat tracheal epithelial (RTE) cell focus inhibition assay was used to
identify potential anticarcinogenic agents. Ninety-nine compds. were
evaluated for their ability to inhibit benzo[a]pyrene-induced
transformation of RTE cells. Freshly isolated RTE cells were exposed to
benzo[a]pyrene alone or in combination with a substance to be tested.
After 30 days in culture, transformed foci were scored and inhibition was
quantitated. Foci formation was inhibited mainly by agents which modulate
the initiation of carcinogenesis by altering drug-metabolizing enzymes,
inhibiting the binding of benzo[a]pyrene to DNA, enhancing detoxification
of activated carcinogens, or by inducing epithelial cell differentiation.
Such agents include antioxidants, free-radical scavengers, glutathione
S-transferase enhancers, vitamins, retinoids, and SH compds. Agents which
inhibit ornithine decarboxylase and arachidonic acid metab. were not as
effective. The RTE assay provides important data for compd. selection
prior to whole-animal-screening assays in the development of
carcinogenesis-inhibiting drugs.

IT 50-78-2, Acetylsalicylic acid 52-53-9, Verapamil 53-43-0,
Dehydroepiandrosterone 53-86-1, Indomethacin 56-40-6, Glycine,
biological studies 57-55-6, Propylene glycol, biological studies
58-27-5, Vitamin K3 58-73-1, **Diphenhydramine** 58-93-5,
Hydrochlorothiazide 59-30-3, Folic acid, biological studies 59-51-8,
DL-Methionine 59-67-6, Nicotinic acid, biological studies 60-23-1,
Cysteamine 60-54-8, Tetracycline 60-82-2, Phloretin 60-87-7,
Promethazine 61-73-4, Methylene blue 62-46-4, Thiocetic acid 69-65-8,
D-Mannitol 69-93-2, Uric acid, biological studies 73-31-4, Melatonin
74-79-3, Arginine, biological studies 77-52-1, Ursolic acid 79-63-0,
Lanosterol 83-46-5, .beta.-Sitosterol 83-86-3, Inositol hexaphosphate
83-89-6, Quinacrine 87-11-6, Thiolutin 99-73-0, p-Bromophenacyl
bromide 110-17-8, Fumaric acid, biological studies 121-32-4,
Ethylvanillin 121-33-5, Vanillin 121-79-9, Propyl gallate 129-46-4,
Sodium suramin 137-66-6, Ascorbyl palmitate 141-84-4,
2-Thioxo-4-thiazolidinone 146-17-8, Riboflavin 5'-phosphate 150-13-0,
p-Aminobenzoic acid 150-76-5, p-Methoxyphenol 155-58-8, Rhapontin
305-84-0, Carnosine 327-97-9, Chlorogenic acid 331-39-5, Caffeic acid
458-37-7, Curcumin 471-53-4, .alpha.-Glycyrrhetic acid 471-80-7,
Steviol 479-16-8 480-16-0, Morin 486-12-4, Triprolidine 520-36-5,
Apigenin 529-44-2, **Myricetin** 532-11-6, Anethole trithione
569-65-3, Meclizine 592-88-1, Diallyl sulfide 599-79-1, Sulfasalazine
622-78-6, Benzyl isothiocyanate 624-49-7, Dimethyl fumarate 1135-24-6,
Ferulic acid 1191-85-1, ETYA 1449-05-4, .beta.-Glycyrrhetic acid
2050-87-5, Diallyl trisulfide 2179-58-0, Allyl methyl disulfide
2257-09-2, Phenethylisothiocyanate 2609-46-3, Amiloride 3766-08-3,

DL-Palmitoylcarnitine 5697-56-3, Carbenoxolone 6385-02-0, Sodium
meclofenamate 7235-40-7, .beta.-Carotene 7631-95-0, Sodium molybdate
7772-98-7, Sodium thiosulfate 8050-81-5, Simethicone 9003-39-8,
Polyvinylpyrrolidone 10102-18-8, Sodium selenite 11103-57-4, Vitamin A
15826-37-6, Sodium cromolyn 17407-37-3, .alpha.-Tocopherol succinate
22916-47-8, Miconazole 25496-72-4, Glycerol monooleate 34135-85-8,
Allyl methyl trisulfide 38194-50-2, Sulindac 52942-31-1, Etoperidone
55268-74-1, Praziquantel 57455-81-9, MAK 5 64224-21-1, Oltipraz
65595-90-6, N-(6-Aminohexyl)-5-chloro-1-naphthalenesulfonamide
75330-75-5, Lovastatin 75775-33-6, Purpurin 79331-86-5, MAK 4
91531-30-5, Antineoplaston A10 92285-01-3, Ajoene 110683-02-8
160371-97-1, BASF 47851 160372-07-6, Ro 16-9100 160372-08-7, Ro
19-2968 161279-28-3, BASF 47848 161279-29-4, BASF 47850 161279-30-7,
BASF 51328

RL: BAC (Biological activity or effector, except adverse); THU

(Therapeutic use); BIOL (Biological study); USES (Uses)

(screening of drugs for inhibiting carcinogenesis by using rat tracheal
epithelial cell culture)

L5 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2002 ACS

AB . . . selected from the group consisting of elastin, elastin fragments, elastin-glycolic acid, collagen, collagen fragments, yeast exts., skin respiratory factor, glucosamine, **glucosamine sulfate**, **hyaluronic acid**, hyaluronate, **chondroitin sulfate**, cholic acid, deoxycholic acid, ginseng ext., aloe vera powder, aloe vera oil, RNA and DNA fragments, ascorbyl palmitate, ascorbic acid, . . . acid, urea, sodium lactate, lactate, glycerin, sorbitol, oils of borage, evening primrose, black currant, almond and canola, vanishing cream, cholesterol, **flavonoids**, witch hazel, chamomile, parsley, hibiscus, capric and caprylic triglycerides, amino acids, allantoin, sodium, calcium, potassium, phosphate, chloride, sodium lactate, alpha. . .

IT Amino acids, biological studies

Candelilla wax

Canola oil

Carnauba wax

Ceramides

Cerebrosides

Cocoa butter

Coconut oil

Collagens, biological studies

Elastins

Flavonoids

Jojoba oil

Lanolin

Lecithins

Paraffin waxes, biological studies

Polysiloxanes, biological studies

Proanthocyanidins

Safflower oil

RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(topical compns. contg. lecithins and moisturizers for treatment skin disorders)

IT 50-21-5, biological studies 50-70-4, Sorbitol, biological studies
50-81-7, L-Ascorbic acid, biological studies 56-81-5,
1,2,3-Propanetriol, biological studies 57-13-6, Urea, biological studies
57-88-5, Cholesterol, biological studies 64-17-5, Ethanol, biological
studies 69-72-7, biological studies 72-17-3, Sodium lactate 77-92-9,
biological studies 79-14-1, biological studies 79-81-2, Retinol
palmitate 81-25-4, Cholic acid 83-44-3, Deoxycholic acid 97-59-6,
Allantoin 110-27-0, Isopropyl myristate 111-02-4, Squalene 124-06-1,
Ethyl myristate 137-66-6, Ascorbyl palmitate 142-91-6, Isopropyl
palmitate 143-28-2, Oleyl alcohol 149-87-1, DL-Pyroglutamic acid
593-31-7, Selachyl alcohol 667-83-4 1406-18-4, Vitamin E 3079-28-5,
N-Decylmethyl sulfoxide 3416-24-8, Glucosamine 4602-84-0, Farnesol
5333-42-6 9004-61-9, **Hyaluronic acid** 9005-65-6,
Polysorbate 80 9005-79-2, Glycogen,, biological studies 9006-65-9,
Dimethicone 9007-28-7, **Chondroitin sulfate**
16351-10-3 29031-19-4, **Glucosamine sulfate**.

31566-31-1, Glycerol monostearate 36148-84-2, Vitamin E linoleate

43119-47-7, Vitamin E nicotinate, 106392-12-5, Poloxamer 407

RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(topical compns. contg. lecithins and moisturizers for treatment skin disorders)

ACCESSION NUMBER: 1999:561584 HCAPLUS

DOCUMENT NUMBER: 131:175090

TITLE: Topical compositions containing lecithins and
moisturizers for the treatment skin disorders

INVENTOR(S): Crandall, Wilson Trafton

PATENT ASSIGNEE(S): USA
 SOURCE: U.S., 9 pp., Cont.-in-part of U.S. 5,639,740.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5945409	A	19990831	US 1997-876764	19970616
US 5639740	A	19970617	US 1995-403241	19950310
AU 9725503	A1	19981020	AU 1997-25503	19970325
WO 9842309	A1	19981001	WO 1998-US5910	19980325

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

AU 9867750	A1	19981020	AU 1998-67750	19980325
US 6316428	B1	20011113	US 1999-383779	19990826

PRIORITY APPLN. INFO.:
 US 1995-403241 A2 19950310
 WO 1997-US4985 A 19970325
 US 1997-876764 A 19970616
 WO 1998-US5910 W 19980325

AB The present invention comprises methods and compns. for topically treating and moisturizing keratinous structures of humans and animals including skin, hair, fingernails, toenails, hooves, and horns. The compn. comprises water-dispersible lecithin and compds. selected from the group consisting of elastin, elastin fragments, elastin-glycolic acid, collagen, collagen fragments, yeast exts., skin respiratory factor, glucosamine, **glucosamine sulfate**, **hyaluronic acid**, hyaluronate, **chondroitin sulfate**, cholic acid, deoxycholic acid, ginseng ext., aloe vera powder, aloe vera oil, RNA and DNA fragments, ascorbyl palmitate, ascorbic acid, retinol palmitate, dehydroxycholesterol, vitamin E, vitamin E lineolate, panthenol Et ether, glycerol ceramides, glycogen, DL-pyroglutamic acid, urea, sodium lactate, lactate, glycerin, sorbitol, oils of borage, evening primrose, black currant, almond and canola, vanishing cream, cholesterol, **flavonoids**, witch hazel, chamomile, parsley, hibiscus, capric and caprylic triglycerides, amino acids, allantoin, sodium, calcium, potassium, phosphate, chloride, sodium lactate, alpha hydroxy acids, cocoa butter, coconut oil, jojoba oil, safflower oil, wheat germ oil, sesame oil, selachyl alc., shark oil, cerebrosides, proanthocyanidin, farnesol, candelilla, carnauba wax, vitamin E nicotinate, manganese ascorbate, zinc, oleyl alc., polysorbate 80, spermaceti, glycerol monostearate, beeswax, silicone oil, paraffin wax, ozokerite, and PEG 75 lanolin.

REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2002 ACS
 IT Amino acids, biological studies
 Carboxylic acids, biological studies
 Carnauba wax
 Cerebrosides
 Cocoa butter
 Coconut oil
 Collagens, biological studies
 Elastins
 Evening primrose oil

Flavonoids

Glycerides, biological studies

Jojoba oil

Lanolin

Lecithins

Paraffin waxes, biological studies

Polysiloxanes, biological studies

Proanthocyanidins

Safflower oil

Sesame oil

Tocopherols

Wheat germ oil

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(topical moisturizing compn. contg. water-dispersible lecithin)

IT 50-21-5, Lactic acid, biological studies 50-70-4, Sorbitol, biological studies 50-81-7, Ascorbic acid, biological studies 56-81-5, Glycerol, biological studies 57-13-6, Urea, biological studies 57-88-5, Cholesterol, biological studies 69-72-7, Salicylic acid, biological studies 72-17-3, Sodium lactate 77-92-9, Citric acid, biological studies 79-14-1, Glycolic acid, biological studies 79-81-2, Retinol palmitate 81-25-4, Cholic acid 83-44-3, Deoxycholic acid 97-59-6, Allantoin 111-02-4, Squalene 137-66-6, Ascorbyl palmitate 143-28-2, Oleyl alcohol 149-87-1, DL-Pyroglutamic acid 434-16-2, 7-Dehydrocholesterol 593-31-7, Selachyl alcohol 1406-18-4, Vitamin e 3416-24-8, Glucosamine 4602-84-0, Farnesol 9004-61-9, **Hyaluronic acid** 9005-65-6, Polysorbate 80 9005-79-2, Glycogen, biological studies 9006-65-9, Dimethicone 9007-28-7, **Chondroitin sulfate** 10527-68-1 16351-10-3 29031-19-4, **Glucosamine sulfate** 31566-31-1, Glycerol monostearate 36148-84-2, Vitamin e linoleate 43119-47-7, Vitamin e nicotinate
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(topical moisturizing compn. contg. water-dispersible lecithin)

ACCESSION NUMBER: 1998:672448 HCAPLUS

DOCUMENT NUMBER: 129:280777

TITLE: Topical moisturizing composition containing water-dispersible lecithin

INVENTOR(S): Crandall, Wilson T.

PATENT ASSIGNEE(S): USA

SOURCE: PCT Int. Appl., 27 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9842309	A1	19981001	WO 1998-US5910	19980325
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
AU 9725503	A1	19981020	AU 1997-25503	19970325
US 5945409	A	19990831	US 1997-876764	19970616
AU 9867750	A1	19981020	AU 1998-67750	19980325
PRIORITY APPLN. INFO.:			US 1997-876764 A	19970616

US 1995-403241 A2 19950310
WO 1997-US4985 A 19970325
WO 1998-US5910 W 19980325

AB Methods and compns. for topically treating and moisturizing keratinous structures of humans and animals including skin, hair, fingernails, toenails, hooves and horns are disclosed. The methods and compns. comprise applying to the keratinous tissue a water-dispersible lecithin. A soln. of 20 g soy lecithin in 20 mL iso-Pr palmitate was mixed with 2 mL of almond oil and 80 mL of 20% Pluronic soln. to obtain a gel. The moisturizing effect of the gel on the skin of volunteers was studied.

L5 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2002 ACS

AB . . . selected from the group consisting of elastin, elastin fragments, elastin-glycolic acid, collagen, collagen fragments, yeast exts., skin respiratory factor, glucosamine, **glucosamine sulfate**, **hyaluronic acid**, hyaluronate, **chondroitin sulfate**, cholic acid, deoxycholic acid, ginseng ext., aloe vera powder, aloe vera oil, RNA and DNA fragments, ascorbyl palmitate, ascorbic acid, . . . acid, urea, sodium lactate, lactate, glycerin, sorbitol, oils of borage, evening primrose, black currant, almond and canola, vanishing cream, cholesterol, **flavonoids**, witch hazel, chamomile, parsley, hibiscus, capric and caprylic triglycerides, amino acids, allantoin, sodium, calcium, potassium, phosphate, chloride, sodium lactate, alpha. . .

IT Amino acids, biological studies

Candelilla wax

Canola oil

Carnauba wax

Ceramides

Cerebrosides

Cocoa butter

Coconut oil

Collagens, biological studies

Elastins

Flavonoids

Jojoba oil

Lanolin

Lecithins

Paraffin waxes, biological studies

Polysiloxanes, biological studies

Proanthocyanidins

Safflower oil

RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(topical compns. contg. lecithins and moisturizers for treatment skin disorders)

IT 50-21-5, biological studies 50-70-4, Sorbitol, biological studies

50-81-7, L-Ascorbic acid, biological studies 56-81-5,

1,2,3-Propanetriol, biological studies 57-13-6, Urea, biological studies

57-88-5, Cholesterol, biological studies 64-17-5, Ethanol, biological

studies 69-72-7, biological studies 72-17-3, Sodium lactate 77-92-9,

biological studies 79-14-1, biological studies 79-81-2, Retinol

palmitate 81-25-4, Cholic acid 83-44-3, Deoxycholic acid 97-59-6,

Allantoin 110-27-0, Isopropyl myristate 111-02-4, Squalene 124-06-1,

Ethyl myristate 137-66-6, Ascorbyl palmitate 142-91-6, Isopropyl

palmitate 143-28-2, Oleyl alcohol 149-87-1, DL-Pyroglutamic acid

593-31-7, Selachyl alcohol 667-83-4 1406-18-4, Vitamin E 3079-28-5,

N-Decylmethyl sulfoxide 3416-24-8, Glucosamine 4602-84-0, Farnesol

5333-42-6 9004-61-9, **Hyaluronic acid** 9005-65-6,

Polysorbate 80 9005-79-2, Glycogen,, biological studies 9006-65-9,

Dimethicone 9007-28-7, **Chondroitin sulfate**

16351-10-3 29031-19-4, **Glucosamine sulfate**.

31566-31-1, Glycerol monostearate 36148-84-2, Vitamin E linoleate

43119-47-7, Vitamin E nicotinate, 106392-12-5, Poloxamer 407
 RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (topical compns. contg. lecithins and moisturizers for treatment skin
 disorders)

ACCESSION NUMBER: 1999:561584 CAPLUS
 DOCUMENT NUMBER: 131:175090
 TITLE: Topical compositions containing lecithins and
 moisturizers for the treatment skin disorders
 INVENTOR(S): Crandall, Wilson Trafton
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S., 9 pp., Cont.-in-part of U.S. 5,639,740.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5945409	A	19990831	US 1997-876764	19970616
US 5639740	A	19970617	US 1995-403241	19950310
AU 9725503	A1	19981020	AU 1997-25503	19970325
WO 9842309	A1	19981001	WO 1998-US5910	19980325
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				

AU 9867750	A1	19981020	AU 1998-67750	19980325
US 6316428	B1	20011113	US 1999-383779	19990826

PRIORITY APPLN. INFO.:
 US 1995-403241 A2 19950310
 WO 1997-US4985 A 19970325
 US 1997-876764 A 19970616
 WO 1998-US5910 W 19980325

AB The present invention comprises methods and compns. for topically treating
 and moisturizing keratinous structures of humans and animals including
 skin, hair, fingernails, toenails, hooves, and horns. The compn.
 comprises water-dispersible lecithin and compds. selected from the group
 consisting of elastin, elastin fragments, elastin-glycolic acid, collagen,
 collagen fragments, yeast exts., skin respiratory factor, glucosamine,
glucosamine sulfate, hyaluronic acid
 , hyaluronate, **chondroitin sulfate**, cholic acid,
 deoxycholic acid, ginseng ext., aloe vera powder, aloe vera oil, RNA and
 DNA fragments, ascorbyl palmitate, ascorbic acid, retinol palmitate,
 dehydroxycholesterol, vitamin E, vitamin E lineolate, panthenol Et ether,
 glycerol ceramides, glycogen, DL-pyroglyutamic acid, urea, sodium lactate,
 lactate, glycerin, sorbitol, oils of borage, evening primrose, black
 currant, almond and canola, vanishing cream, cholesterol,
flavonoids, witch hazel, chamomile, parsley, hibiscus, capric and
 caprylic triglycerides, amino acids, allantoin, sodium, calcium,
 potassium, phosphate, chloride, sodium lactate, alpha hydroxy acids, cocoa
 butter, coconut oil, jojoba oil, safflower oil, wheat germ oil, sesame
 oil, selachyl alc., shark oil, cerebroside, proanthocyanidin, farnesol,
 candelilla, carnauba wax, vitamin E nicotinate, manganese ascorbate, zinc,
 oleyl alc., polysorbate 80, spermaceti, glycerol monostearate, beeswax,
 silicone oil, paraffin wax, ozokerite, and PEG 75 lanolin.

REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2002 ACS

IT Amino acids, biological studies
Carboxylic acids, biological studies
Carnauba wax
Cerebrosides
Cocoa butter
Coconut oil
Collagens, biological studies
Elastins
Evening primrose oil

Flavonoids

Glycerides, biological studies
Jojoba oil
Lanolin
Lecithins
Paraffin waxes, biological studies
Polysiloxanes, biological studies
Proanthocyanidins
Safflower oil
Sesame oil
Tocopherols
Wheat germ oil

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)

(topical moisturizing compn. contg. water-dispersible lecithin)
IT 50-21-5, Lactic acid, biological studies 50-70-4, Sorbitol, biological
studies 50-81-7, Ascorbic acid, biological studies 56-81-5, Glycerol,
biological studies 57-13-6, Urea, biological studies 57-88-5,
Cholesterol, biological studies 69-72-7, Salicylic acid, biological
studies 72-17-3, Sodium lactate 77-92-9, Citric acid, biological
studies 79-14-1, Glycolic acid, biological studies 79-81-2, Retinol
palmitate 81-25-4, Cholic acid 83-44-3, Deoxycholic acid 97-59-6,
Allantoin 111-02-4, Squalene 137-66-6, Ascorbyl palmitate 143-28-2,
Oleyl alcohol 149-87-1, DL-Pyroglutamic acid 434-16-2,
7-Dehydrocholesterol 593-31-7, Selachyl alcohol 1406-18-4, Vitamin e
3416-24-8, Glucosamine 4602-84-0, Farnesol 9004-61-9,
Hyaluronic acid 9005-65-6, Polysorbate 80 9005-79-2,
Glycogen, biological studies 9006-65-9, Dimethicone 9007-28-7,
Chondroitin sulfate 10527-68-1 16351-10-3
29031-19-4, **Glucosamine sulfate** 31566-31-1, Glycerol
monostearate 36148-84-2, Vitamin e linoleate 43119-47-7, Vitamin e
nicotinate
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)

(topical moisturizing compn. contg. water-dispersible lecithin)

ACCESSION NUMBER: 1998:672448 CAPLUS

DOCUMENT NUMBER: 129:280777

TITLE: Topical moisturizing composition containing
water-dispersible lecithin

INVENTOR(S): Crandall, Wilson T.

PATENT ASSIGNEE(S): USA

SOURCE: PCT Int. Appl., 27 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9842309	A1	19981001	WO 1998-US5910	19980325
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,				
DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG,				

KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,
 NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,
 UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI,
 FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM,
 GA, GN, ML, MR, NE, SN, TD, TG

AU 9725503 A1 19981020 AU 1997-25503 19970325

US 5945409 A 19990831 US 1997-876764 19970616

AU 9867750 A1 19981020 AU 1998-67750 19980325

PRIORITY APPLN. INFO.:

US 1997-876764 A 19970616

US 1995-403241 A2 19950310

WO 1997-US4985 A 19970325

WO 1998-US5910 W 19980325

AB Methods and compns. for topically treating and moisturizing keratinous structures of humans and animals including skin, hair, fingernails, toenails, hooves and horns are disclosed. The methods and compns. comprise applying to the keratinous tissue a water-dispersible lecithin. A soln. of 20 g soy lecithin in 20 mL iso-Pr palmitate was mixed with 2 mL of almond oil and 80 mL of 20% Pluronic soln. to obtain a gel. The moisturizing effect of the gel on the skin of volunteers was studied.